

APPENDIX D

LABORATORY REPORTS



12/13/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513A

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513A

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/13/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 1-IA1-111512 | Modified TO-15 SIM | 3.0 "Hg | 5 psi |
| 02A | 1-IA2-111512 | Modified TO-15 SIM | 0.0 "Hg | 5 psi |
| 03A | 1-IA3-111512 | Modified TO-15 SIM | 4.5 "Hg | 5 psi |
| 04A | 5-IA1-111412 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 05A | 5-IA2-111412 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 06A | 5-IA3-111412 | Modified TO-15 SIM | 5.5 "Hg | 5 psi |
| 07A | 7-IA1-111512 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 08A | 7-IA2-111512 | Modified TO-15 SIM | 3.0 "Hg | 5 psi |
| 09A | 9-IA1-111212 | Modified TO-15 SIM | 2.0 "Hg | 5 psi |
| 10A | 9-IA2-111212 | Modified TO-15 SIM | 1.0 "Hg | 5 psi |
| 11A | 24-CS1-111512 | Modified TO-15 SIM | 5.5 "Hg | 5 psi |
| 12A | 27-IA1-111512 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 13A | 27-IA2-111512 | Modified TO-15 SIM | 6.0 "Hg | 5 psi |
| 14A | 27-CS1-111512 | Modified TO-15 SIM | 0.0 "Hg | 5 psi |
| 15A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 16A | CCV | Modified TO-15 SIM | NA | NA |
| 17A | LCS | Modified TO-15 SIM | NA | NA |
| 17AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 

DATE: 12/13/12

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513A

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Despite the use of flow controllers for sample collection, the final canister vacuums for samples 1-IA2-111512 and 27-CS1-111512 were measured at ambient pressure in the field. These ambient pressure readings were confirmed by the laboratory upon sample receipt.

Analytical Notes

Dilution was performed on samples 9-IA1-111212 and 9-IA2-111212 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: 1-IA1-111512

Lab ID#: 1211513A-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------------------|------------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 0.030 | 0.076 | 0.12 | 0.31 |
| Trichloroethene | 0.030 | 0.23 | 0.16 | 1.2 |

Client Sample ID: 1-IA2-111512

Lab ID#: 1211513A-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------------------|------------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 0.027 | 0.050 | 0.11 | 0.20 |
| Trichloroethene | 0.027 | 0.19 | 0.14 | 1.0 |

Client Sample ID: 1-IA3-111512

Lab ID#: 1211513A-03A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------|----------------------|------------------|-----------------------|-------------------|
| Trichloroethene | 0.032 | 0.18 | 0.17 | 1.0 |

Client Sample ID: 5-IA1-111412

Lab ID#: 1211513A-04A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Tetrachloroethene | 0.031 | 0.034 | 0.21 | 0.23 |

Client Sample ID: 5-IA2-111412

Lab ID#: 1211513A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Trichloroethene | 0.030 | 0.031 | 0.16 | 0.17 |
| Tetrachloroethene | 0.030 | 0.032 | 0.21 | 0.22 |

Client Sample ID: 5-IA3-111412

Lab ID#: 1211513A-06A

No Detections Were Found.

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: 7-IA1-111512

Lab ID#: 1211513A-07A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.030 | 0.030 | 0.12 | 0.12 |
| Tetrachloroethene | 0.030 | 0.030 | 0.21 | 0.20 |

Client Sample ID: 7-IA2-111512

Lab ID#: 1211513A-08A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Tetrachloroethene | 0.030 | 0.029 J | 0.20 | 0.20 J |

Client Sample ID: 9-IA1-111212

Lab ID#: 1211513A-09A

No Detections Were Found.

Client Sample ID: 9-IA2-111212

Lab ID#: 1211513A-10A

No Detections Were Found.

Client Sample ID: 24-CS1-111512

Lab ID#: 1211513A-11A

No Detections Were Found.

Client Sample ID: 27-IA1-111512

Lab ID#: 1211513A-12A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.031 | 0.36 | 0.12 | 1.5 |

Client Sample ID: 27-IA2-111512

Lab ID#: 1211513A-13A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-----------------|--------------------------|----------------------|---------------------------|-----------------------|
|-----------------|--------------------------|----------------------|---------------------------|-----------------------|

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM

Client Sample ID: 27-IA2-111512

Lab ID#: 1211513A-13A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|------------------------------|--------------------------|-------------------------------|---------------------------|
| 1,2-Dichloroethane | 0.034 | 0.37 | 0.14 | 1.5 |

Client Sample ID: 27-CS1-111512

Lab ID#: 1211513A-14A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|------------------------------|--------------------------|-------------------------------|---------------------------|
| Vinyl Chloride | 0.013 | 0.015 | 0.034 | 0.039 |
| 1,2-Dichloroethane | 0.027 | 0.041 | 0.11 | 0.17 |



Client Sample ID: 1-IA1-111512

Lab ID#: 1211513A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120407sim | Date of Collection: | 11/15/12 1:17:00 PM |
| Dil. Factor: | 1.49 | Date of Analysis: | 12/4/12 02:23 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.038 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.059 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | 0.076 | 0.12 | 0.31 |
| Trichloroethene | 0.030 | 0.23 | 0.16 | 1.2 |
| Tetrachloroethene | 0.030 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 0.074 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |



Client Sample ID: 1-IA2-111512

Lab ID#: 1211513A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120408sim | Date of Collection: | 11/15/12 1:18:00 PM |
| Dil. Factor: | 1.34 | Date of Analysis: | 12/4/12 02:59 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.013 | Not Detected | 0.034 | Not Detected |
| 1,1-Dichloroethene | 0.013 | Not Detected | 0.053 | Not Detected |
| 1,1-Dichloroethane | 0.027 | Not Detected | 0.11 | Not Detected |
| cis-1,2-Dichloroethene | 0.027 | Not Detected | 0.11 | Not Detected |
| 1,2-Dichloroethane | 0.027 | 0.050 | 0.11 | 0.20 |
| Trichloroethene | 0.027 | 0.19 | 0.14 | 1.0 |
| Tetrachloroethene | 0.027 | Not Detected | 0.18 | Not Detected |
| trans-1,2-Dichloroethene | 0.13 | Not Detected | 0.53 | Not Detected |
| Chloroethane | 0.067 | Not Detected | 0.18 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |

Client Sample ID: 1-IA3-111512

Lab ID#: 1211513A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v120409sim | Date of Collection: 11/15/12 1:20:00 PM |
| Dil. Factor: | 1.58 | Date of Analysis: 12/4/12 03:39 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.063 | Not Detected |
| 1,1-Dichloroethane | 0.032 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.032 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.032 | Not Detected | 0.13 | Not Detected |
| Trichloroethene | 0.032 | 0.18 | 0.17 | 1.0 |
| Tetrachloroethene | 0.032 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Chloroethane | 0.079 | Not Detected | 0.21 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 114 | 70-130 |



Air Toxics

Client Sample ID: 5-IA1-111412

Lab ID#: 1211513A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v120410sim | Date of Collection: 11/14/12 11:16:00 A |
| Dil. Factor: | 1.55 | Date of Analysis: 12/4/12 04:18 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | 0.034 | 0.21 | 0.23 |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |

Client Sample ID: 5-IA2-111412

Lab ID#: 1211513A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v120411sim | Date of Collection: 11/14/12 11:19:00 A |
| Dil. Factor: | 1.52 | Date of Analysis: 12/4/12 04:54 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.030 | 0.031 | 0.16 | 0.17 |
| Tetrachloroethene | 0.030 | 0.032 | 0.21 | 0.22 |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 119 | 70-130 |



Air Toxics

Client Sample ID: 5-IA3-111412

Lab ID#: 1211513A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120412sim | Date of Collection: | 11/14/12 11:22:00 A |
| Dil. Factor: | 1.64 | Date of Analysis: | 12/4/12 05:32 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.042 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.065 | Not Detected |
| 1,1-Dichloroethane | 0.033 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.033 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.033 | Not Detected | 0.13 | Not Detected |
| Trichloroethene | 0.033 | Not Detected | 0.18 | Not Detected |
| Tetrachloroethene | 0.033 | Not Detected | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.65 | Not Detected |
| Chloroethane | 0.082 | Not Detected | 0.22 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |



Air Toxics

Client Sample ID: 7-IA1-111512

Lab ID#: 1211513A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120413sim | Date of Collection: | 11/15/12 9:51:00 AM |
| Dil. Factor: | 1.52 | Date of Analysis: | 12/4/12 06:12 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | 0.030 | 0.12 | 0.12 |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | 0.030 | 0.21 | 0.20 |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: 7-IA2-111512

Lab ID#: 1211513A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120414sim | Date of Collection: | 11/15/12 9:51:00 AM |
| Dil. Factor: | 1.49 | Date of Analysis: | 12/4/12 07:08 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.038 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.059 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | 0.029 J | 0.20 | 0.20 J |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 0.074 | Not Detected | 0.20 | Not Detected |

J = Estimated value.

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |



Air Toxics

Client Sample ID: 9-IA1-111212

Lab ID#: 1211513A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v120419sim | Date of Collection: 11/12/12 10:03:00 A |
| Dil. Factor: | 2.88 | Date of Analysis: 12/4/12 10:35 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.029 | Not Detected | 0.074 | Not Detected |
| 1,1-Dichloroethene | 0.029 | Not Detected | 0.11 | Not Detected |
| 1,1-Dichloroethane | 0.058 | Not Detected | 0.23 | Not Detected |
| cis-1,2-Dichloroethene | 0.058 | Not Detected | 0.23 | Not Detected |
| 1,2-Dichloroethane | 0.058 | Not Detected | 0.23 | Not Detected |
| Trichloroethene | 0.058 | Not Detected | 0.31 | Not Detected |
| Tetrachloroethene | 0.058 | Not Detected | 0.39 | Not Detected |
| trans-1,2-Dichloroethene | 0.29 | Not Detected | 1.1 | Not Detected |
| Chloroethane | 0.14 | Not Detected | 0.38 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |



Air Toxics

Client Sample ID: 9-IA2-111212

Lab ID#: 1211513A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120420sim | Date of Collection: | 11/12/12 10:02:00 A |
| Dil. Factor: | 1.74 | Date of Analysis: | 12/4/12 11:11 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.017 | Not Detected | 0.044 | Not Detected |
| 1,1-Dichloroethene | 0.017 | Not Detected | 0.069 | Not Detected |
| 1,1-Dichloroethane | 0.035 | Not Detected | 0.14 | Not Detected |
| cis-1,2-Dichloroethene | 0.035 | Not Detected | 0.14 | Not Detected |
| 1,2-Dichloroethane | 0.035 | Not Detected | 0.14 | Not Detected |
| Trichloroethene | 0.035 | Not Detected | 0.19 | Not Detected |
| Tetrachloroethene | 0.035 | Not Detected | 0.24 | Not Detected |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.69 | Not Detected |
| Chloroethane | 0.087 | Not Detected | 0.23 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |



Air Toxics

Client Sample ID: 24-CS1-111512

Lab ID#: 1211513A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v120415sim | Date of Collection: 11/15/12 11:34:00 A |
| Dil. Factor: | 1.64 | Date of Analysis: 12/4/12 08:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.042 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.065 | Not Detected |
| 1,1-Dichloroethane | 0.033 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.033 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.033 | Not Detected | 0.13 | Not Detected |
| Trichloroethene | 0.033 | Not Detected | 0.18 | Not Detected |
| Tetrachloroethene | 0.033 | Not Detected | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.65 | Not Detected |
| Chloroethane | 0.082 | Not Detected | 0.22 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |



Air Toxics

Client Sample ID: 27-IA1-111512

Lab ID#: 1211513A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120416sim | Date of Collection: | 11/15/12 8:26:00 AM |
| Dil. Factor: | 1.55 | Date of Analysis: | 12/4/12 08:45 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | 0.36 | 0.12 | 1.5 |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |



Client Sample ID: 27-IA2-111512

Lab ID#: 1211513A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120417sim | Date of Collection: | 11/15/12 8:31:00 AM |
| Dil. Factor: | 1.68 | Date of Analysis: | 12/4/12 09:23 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.017 | Not Detected | 0.043 | Not Detected |
| 1,1-Dichloroethene | 0.017 | Not Detected | 0.067 | Not Detected |
| 1,1-Dichloroethane | 0.034 | Not Detected | 0.14 | Not Detected |
| cis-1,2-Dichloroethene | 0.034 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.034 | 0.37 | 0.14 | 1.5 |
| Trichloroethene | 0.034 | Not Detected | 0.18 | Not Detected |
| Tetrachloroethene | 0.034 | Not Detected | 0.23 | Not Detected |
| trans-1,2-Dichloroethene | 0.17 | Not Detected | 0.67 | Not Detected |
| Chloroethane | 0.084 | Not Detected | 0.22 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |



Client Sample ID: 27-CS1-111512

Lab ID#: 1211513A-14A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v120418sim | Date of Collection: | 11/15/12 8:53:00 AM |
| Dil. Factor: | 1.34 | Date of Analysis: | 12/4/12 09:59 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.013 | 0.015 | 0.034 | 0.039 |
| 1,1-Dichloroethene | 0.013 | Not Detected | 0.053 | Not Detected |
| 1,1-Dichloroethane | 0.027 | Not Detected | 0.11 | Not Detected |
| cis-1,2-Dichloroethene | 0.027 | Not Detected | 0.11 | Not Detected |
| 1,2-Dichloroethane | 0.027 | 0.041 | 0.11 | 0.17 |
| Trichloroethene | 0.027 | Not Detected | 0.14 | Not Detected |
| Tetrachloroethene | 0.027 | Not Detected | 0.18 | Not Detected |
| trans-1,2-Dichloroethene | 0.13 | Not Detected | 0.53 | Not Detected |
| Chloroethane | 0.067 | Not Detected | 0.18 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 1211513A-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|-------------|---|
| File Name: | v120406asim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 01:32 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1211513A-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | v120402sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 09:25 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 78 |
| 1,1-Dichloroethene | 88 |
| 1,1-Dichloroethane | 90 |
| cis-1,2-Dichloroethene | 92 |
| 1,2-Dichloroethane | 93 |
| Trichloroethene | 81 |
| Tetrachloroethene | 96 |
| trans-1,2-Dichloroethene | 91 |
| Chloroethane | 88 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211513A-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | v120404sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 11:20 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 80 |
| 1,1-Dichloroethene | 93 |
| 1,1-Dichloroethane | 90 |
| cis-1,2-Dichloroethene | 92 |
| 1,2-Dichloroethane | 91 |
| Trichloroethene | 80 |
| Tetrachloroethene | 93 |
| trans-1,2-Dichloroethene | 101 |
| Chloroethane | 87 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 1211513A-17AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | v120405sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 12:39 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 80 |
| 1,1-Dichloroethene | 93 |
| 1,1-Dichloroethane | 90 |
| cis-1,2-Dichloroethene | 92 |
| 1,2-Dichloroethane | 91 |
| Trichloroethene | 80 |
| Tetrachloroethene | 91 |
| trans-1,2-Dichloroethene | 102 |
| Chloroethane | 87 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 5

Project Manager Bill Beattie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashon@maufoster.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-944-9715 ^{suite 200} Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006-31-01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 1-IA1-111512 | 35558 | 11/15/12 | 13:17 | TO-15 SIM <small>see notes</small> | -30 | -4.5 | | |
| 02A | 1-IA2-111512 | 3748 | 11/15/12 | 13:18 | hold | -30 | 0 | | |
| 03A | 1-IA3-111512 | 34306 | 11/15/12 | 13:20 | TO-15 SIM <small>see notes</small> | -29 | -4.5 | | |
| 04A | 5-IA1-111412 | 424 | 11/14/12 | 11:16 | | -30 | -3.5 | | |
| 05A | 5-IA2-111412 | 3734 | 11/14/12 | 11:19 | | -30 | -3.5 | | |
| 06A | 5-IA3-111412 | 4383 | 11/14/12 | 11:22 | | -30 | -5 | | |
| 07A | 7-IA1-111512 | 14122 | 11/15/12 | 09:51 | | -30 | -5 | | |
| 08A | 7-IA2-111512 | 35241 | 11/15/12 | 09:51 | | -30 | -2.5 | | |
| 09A | 9-IA1-111212 | 33565 | 11/12/12 | 10:03 | | -28 | -3.5 | | |
| 10A | 9-IA2-111212 | 32130 | 11/12/12 | 10:02 | | -30 | -2 | | |

| | | |
|---|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds, see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

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Page 2 of 3

Project Manager Bill Beattie / Meredith D. Anderson
 Collected by: (Print and Sign) Thomas Ashton
 Company UFA Email tashon@maul-foster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97229
 Phone 503-944-9715 Fax _____

| | | | |
|----------------------------------|--------------------------------|--|--|
| Project Info: | P.O. # _____ | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Lab Use Only |
| | Project # <u>8006-31.01-05</u> | | Pressurized by: |
| Project Name <u>Park Laundry</u> | | | Date: |
| | | | Pressurization Gas: <u>N₂</u> He |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | 0A1-111512 | 20438 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | 0A2-111512 0A1-111612 | 31435 | 11/16/12 | 08:50 | | -29 | -4.5 | | |
| 17A | 0A3-339 0A3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | 0A3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | 0A2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | 0A2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
TO-15 SIM for select compounds.
see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>WPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (818) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
 Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
 CAS = Chemical Abstract Service
 NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/14/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513B

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513B

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/14/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|--------------------|-------------------------------|---------------------------|
| 16A | OA1-111612 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 17A | OA3-111512 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 18A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 19A | CCV | Modified TO-15 SIM | NA | NA |
| 20A | LCS | Modified TO-15 SIM | NA | NA |
| 20AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/14/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



**LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513B**

Two 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$.; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: OA1-111612

Lab ID#: 1211513B-16A

No Detections Were Found.

Client Sample ID: OA3-111512

Lab ID#: 1211513B-17A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|------------------------------|--------------------------|-------------------------------|---------------------------|
| 1,2-Dichloroethane | 0.031 | 0.064 | 0.12 | 0.26 |



Client Sample ID: OA1-111612

Lab ID#: 1211513B-16A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120417sim | Date of Collection: | 11/16/12 8:50:00 AM |
| Dil. Factor: | 1.55 | Date of Analysis: | 12/5/12 07:21 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: OA3-111512

Lab ID#: 1211513B-17A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120418sim | Date of Collection: | 11/15/12 9:18:00 AM |
| Dil. Factor: | 1.55 | Date of Analysis: | 12/5/12 08:09 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | 0.064 | 0.12 | 0.26 |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1211513B-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | a120416sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 12/4/12 10:19 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1211513B-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120412sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 06:01 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 91 |
| 1,1-Dichloroethene | 102 |
| 1,1-Dichloroethane | 117 |
| cis-1,2-Dichloroethene | 108 |
| 1,2-Dichloroethane | 125 |
| Trichloroethene | 101 |
| Tetrachloroethene | 98 |
| trans-1,2-Dichloroethene | 108 |
| Chloroethane | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211513B-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120413sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 06:51 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 101 |
| 1,1-Dichloroethene | 102 |
| 1,1-Dichloroethane | 113 |
| cis-1,2-Dichloroethene | 101 |
| 1,2-Dichloroethane | 120 |
| Trichloroethene | 95 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 112 |
| Chloroethane | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 121 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 1211513B-20AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120414sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 07:46 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 104 |
| 1,1-Dichloroethene | 95 |
| 1,1-Dichloroethane | 108 |
| cis-1,2-Dichloroethene | 99 |
| 1,2-Dichloroethane | 116 |
| Trichloroethene | 96 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |
| Chloroethane | 99 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 122 | 70-130 |
| Toluene-d8 | 110 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 5

Project Manager Bill Beakie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashon@maulfooster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | | |
|----------------------------------|--------------------------------|--|--|
| Project Info: | P.O. # _____ | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Lab Use Only Pressurized by: _____ |
| | Project # <u>8006.31.01-05</u> | | Date: _____ |
| Project Name <u>Park Laundry</u> | | | Pressurization Gas: N ₂ He |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | OA1-111512 | 20938 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | OA2-111512 OA1-111612 | 31435 | 11/15/12 | 08:50 | | -29 | -4.5 | | |
| 17A | OA3-339 OA3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | OA3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | OA2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | OA2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

11/20
11/20

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
TO-15 SIM for select compounds.
see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|--|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |
| NOTES: Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012. CAS = Chemical Abstract Service NE = Not Established $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter. | | | | |

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/26/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513C

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513C

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/26/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|--------------------|-------------------------------|---------------------------|
| 15A | OA1-111512 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 18A | OA3-111612 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 19A | OA2-111512 | Modified TO-15 SIM | 0.8 psi | 5 psi |
| 20A | OA2-111612 | Modified TO-15 SIM | 2.0 "Hg | 5 psi |
| 21A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 22A | CCV | Modified TO-15 SIM | NA | NA |
| 23A | LCS | Modified TO-15 SIM | NA | NA |
| 23AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/26/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513C

Four 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD |
| Daily Calibration | $\pm 30\%$ Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Despite the use of flow controllers for sample collection, the final canister vacuum for sample OA2-111512 was measured at ambient pressure in the field. This ambient pressure reading was confirmed by the laboratory upon sample receipt.

Samples OA1-111512, OA3-111612, OA2-111512 and OA2-111612 were removed from "Hold" and placed on "Active" status per client request on December 14, 2012.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: OA1-111512

Lab ID#: 1211513C-15A

No Detections Were Found.

Client Sample ID: OA3-111612

Lab ID#: 1211513C-18A

No Detections Were Found.

Client Sample ID: OA2-111512

Lab ID#: 1211513C-19A

No Detections Were Found.

Client Sample ID: OA2-111612

Lab ID#: 1211513C-20A

No Detections Were Found.



Air Toxics

Client Sample ID: OA1-111512

Lab ID#: 1211513C-15A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v121407sim | Date of Collection: | 11/15/12 9:37:00 AM |
| Dil. Factor: | 1.52 | Date of Analysis: | 12/14/12 11:29 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |



Air Toxics

Client Sample ID: OA3-111612

Lab ID#: 1211513C-18A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v121408sim | Date of Collection: 11/16/12 9:06:00 AM |
| Dil. Factor: | 1.52 | Date of Analysis: 12/14/12 12:22 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |



Air Toxics

Client Sample ID: OA2-111512

Lab ID#: 1211513C-19A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | v121409sim | Date of Collection: 11/15/12 9:27:00 AM |
| Dil. Factor: | 1.27 | Date of Analysis: 12/14/12 01:57 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.013 | Not Detected | 0.032 | Not Detected |
| 1,1-Dichloroethene | 0.013 | Not Detected | 0.050 | Not Detected |
| 1,1-Dichloroethane | 0.025 | Not Detected | 0.10 | Not Detected |
| cis-1,2-Dichloroethene | 0.025 | Not Detected | 0.10 | Not Detected |
| 1,2-Dichloroethane | 0.025 | Not Detected | 0.10 | Not Detected |
| Trichloroethene | 0.025 | Not Detected | 0.14 | Not Detected |
| Tetrachloroethene | 0.025 | Not Detected | 0.17 | Not Detected |
| trans-1,2-Dichloroethene | 0.13 | Not Detected | 0.50 | Not Detected |
| Chloroethane | 0.064 | Not Detected | 0.17 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |



Air Toxics

Client Sample ID: OA2-111612

Lab ID#: 1211513C-20A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | v121410sim | Date of Collection: | 11/16/12 8:59:00 AM |
| Dil. Factor: | 1.44 | Date of Analysis: | 12/14/12 02:33 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.014 | Not Detected | 0.037 | Not Detected |
| 1,1-Dichloroethene | 0.014 | Not Detected | 0.057 | Not Detected |
| 1,1-Dichloroethane | 0.029 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.029 | Not Detected | 0.11 | Not Detected |
| 1,2-Dichloroethane | 0.029 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.029 | Not Detected | 0.15 | Not Detected |
| Tetrachloroethene | 0.029 | Not Detected | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 0.14 | Not Detected | 0.57 | Not Detected |
| Chloroethane | 0.072 | Not Detected | 0.19 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 107 | 70-130 |
| 4-Bromofluorobenzene | 111 | 70-130 |



Client Sample ID: Lab Blank

Lab ID#: 1211513C-21A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|-------------------------------------|
| File Name: | v121406sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/12 10:32 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 113 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1211513C-22A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|-------------------|--|
| File Name: | v121402sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/12 07:14 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 78 |
| 1,1-Dichloroethene | 83 |
| 1,1-Dichloroethane | 84 |
| cis-1,2-Dichloroethene | 87 |
| 1,2-Dichloroethane | 80 |
| Trichloroethene | 73 |
| Tetrachloroethene | 81 |
| trans-1,2-Dichloroethene | 86 |
| Chloroethane | 87 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211513C-23A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|-------------------------------------|
| File Name: | v121403sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/12 08:15 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 77 |
| 1,1-Dichloroethene | 84 |
| 1,1-Dichloroethane | 80 |
| cis-1,2-Dichloroethene | 84 |
| 1,2-Dichloroethane | 75 |
| Trichloroethene | 72 |
| Tetrachloroethene | 76 |
| trans-1,2-Dichloroethene | 92 |
| Chloroethane | 81 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 1211513C-23AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|-------------------|--|
| File Name: | v121404sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/14/12 09:00 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 84 |
| 1,1-Dichloroethene | 91 |
| 1,1-Dichloroethane | 88 |
| cis-1,2-Dichloroethene | 91 |
| 1,2-Dichloroethane | 82 |
| Trichloroethene | 79 |
| Tetrachloroethene | 85 |
| trans-1,2-Dichloroethene | 100 |
| Chloroethane | 88 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beakie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@maulfooster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

Project Info:
 P.O. # _____
 Project # 8006.31.01-05
 Project Name Park Laundry

Turn Around Time:
 Normal
 Rush
specify
 Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | OA1-111512 | 20938 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | OA2-111512 OA1-111612 | 31435 | 11/15/12 | 08:50 | | -29 | -4.5 | | |
| 17A | OA3-339 OA3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | OA3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | OA2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | OA2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

11/20
11/20

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 TO-15 SIM for select compounds.
 see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|--|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |
| NOTES: Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012. CAS = Chemical Abstract Service NE = Not Established $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter. | | | | |

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/10/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513D

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513D

Work Order Summary

CLIENT: Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland, OR 97209

BILL TO: Accounts Payable
Maul Foster and Alongi Inc.
400 E. Mill Plain Blvd
Suite 400
Vancouver, WA 98660

PHONE: 971-544-2139

P.O. #

FAX: 971-544-2140

PROJECT # 8006.31.01-05 Park Laundry

DATE RECEIVED: 11/26/2012

CONTACT: Kelly Buettner

DATE COMPLETED: 12/13/2012

DATE REISSUED: 01/10/2013

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 1-IA1-111512 | Modified TO-15 SIM | 3.0 "Hg | 5 psi |
| 02A | 1-IA2-111512 | Modified TO-15 SIM | 0.0 "Hg | 5 psi |
| 03A | 1-IA3-111512 | Modified TO-15 SIM | 4.5 "Hg | 5 psi |
| 04A | 5-IA1-111412 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 05A | 5-IA2-111412 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 06A | 5-IA3-111412 | Modified TO-15 SIM | 5.5 "Hg | 5 psi |
| 07A | 7-IA1-111512 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 08A | 7-IA2-111512 | Modified TO-15 SIM | 3.0 "Hg | 5 psi |
| 09A | 9-IA1-111212 | Modified TO-15 SIM | 2.0 "Hg | 5 psi |
| 10A | 9-IA2-111212 | Modified TO-15 SIM | 1.0 "Hg | 5 psi |
| 11A | 24-CS1-111512 | Modified TO-15 SIM | 5.5 "Hg | 5 psi |
| 12A | 27-IA1-111512 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 13A | 27-IA2-111512 | Modified TO-15 SIM | 6.0 "Hg | 5 psi |
| 14A | 27-CS1-111512 | Modified TO-15 SIM | 0.0 "Hg | 5 psi |
| 15A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 16A | CCV | Modified TO-15 SIM | NA | NA |
| 17A | LCS | Modified TO-15 SIM | NA | NA |
| 17AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 

DATE: 01/10/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563

(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513D

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Despite the use of flow controllers for sample collection, the final canister vacuums for samples 1-IA2-111512 and 27-CS1-111512 were measured at ambient pressure in the field. These ambient pressure readings were confirmed by the laboratory upon sample receipt.

Analytical Notes

Dilution was performed on samples 9-IA1-111212 and 9-IA2-111212 due to the presence of high level non-target species.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211513A on 12-13-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 1-IA1-111512 | Date/Time Analyzed: | 12/4/12 02:23 PM |
| Lab ID: | 1211513D-01A | Dilution Factor: | 1.49 |
| Date/Time Collecte | 11/15/12 01:17 PM | Instrument/Filename: | msdv.i / v120407simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0075 | 0.030 | 0.12 | 0.31 |
| Trichloroethene | 79-01-6 | 0.0038 | 0.040 | 0.16 | 1.2 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 111 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 1-IA2-111512 | Date/Time Analyzed: | 12/4/12 02:59 PM |
| Lab ID: | 1211513D-02A | Dilution Factor: | 1.34 |
| Date/Time Collecte | 11/15/12 01:18 PM | Instrument/Filename: | msdv.i / v120408simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.027 | 0.11 | 0.20 |
| Trichloroethene | 79-01-6 | 0.0034 | 0.036 | 0.14 | 1.0 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 114 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 1-IA3-111512 | Date/Time Analyzed: | 12/4/12 03:39 PM |
| Lab ID: | 1211513D-03A | Dilution Factor: | 1.58 |
| Date/Time Collecte | 11/15/12 01:20 PM | Instrument/Filename: | msdv.i / v120409simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0080 | 0.032 | 0.13 | 0.086 J |
| Trichloroethene | 79-01-6 | 0.0040 | 0.042 | 0.17 | 1.0 |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 114 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 5-IA1-111412 | Date/Time Analyzed: | 12/4/12 04:18 PM |
| Lab ID: | 1211513D-04A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 11/14/12 11:16 AM | Instrument/Filename: | msdv.i / v120410simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0078 | 0.031 | 0.12 | 0.093 J |
| Trichloroethene | 79-01-6 | 0.0039 | 0.042 | 0.17 | 0.063 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 113 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 5-IA2-111412 | Date/Time Analyzed: | 12/4/12 04:54 PM |
| Lab ID: | 1211513D-05A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/14/12 11:19 AM | Instrument/Filename: | msdv.i / v120411simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0077 | 0.031 | 0.12 | 0.11 J |
| Trichloroethene | 79-01-6 | 0.0038 | 0.041 | 0.16 | 0.17 |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 119 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 5-IA3-111412 | Date/Time Analyzed: | 12/4/12 05:32 PM |
| Lab ID: | 1211513D-06A | Dilution Factor: | 1.64 |
| Date/Time Collecte | 11/14/12 11:22 AM | Instrument/Filename: | msdv.i / v120412simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0083 | 0.033 | 0.13 | 0.074 J |
| Trichloroethene | 79-01-6 | 0.0041 | 0.044 | 0.18 | 0.058 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 113 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 7-IA1-111512 | Date/Time Analyzed: | 12/4/12 06:12 PM |
| Lab ID: | 1211513D-07A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/15/12 09:51 AM | Instrument/Filename: | msdv.i / v120413simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0077 | 0.031 | 0.12 | 0.12 |
| Trichloroethene | 79-01-6 | 0.0038 | 0.041 | 0.16 | 0.12 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 7-IA2-111512 | Date/Time Analyzed: | 12/4/12 07:08 PM |
| Lab ID: | 1211513D-08A | Dilution Factor: | 1.49 |
| Date/Time Collecte | 11/15/12 09:51 AM | Instrument/Filename: | msdv.i / v120414simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0075 | 0.030 | 0.12 | 0.080 J |
| Trichloroethene | 79-01-6 | 0.0038 | 0.040 | 0.16 | 0.074 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 9-IA1-111212 | Date/Time Analyzed: | 12/4/12 10:35 PM |
| Lab ID: | 1211513D-09A | Dilution Factor: | 2.88 |
| Date/Time Collecte | 11/12/12 10:03 AM | Instrument/Filename: | msdv.i / v120419simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.014 | 0.058 | 0.23 | 0.16 J |
| Trichloroethene | 79-01-6 | 0.0073 | 0.077 | 0.31 | 0.12 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 111 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 9-IA2-111212 | Date/Time Analyzed: | 12/4/12 11:11 PM |
| Lab ID: | 1211513D-10A | Dilution Factor: | 1.74 |
| Date/Time Collecte | 11/12/12 10:02 AM | Instrument/Filename: | msdv.i / v120420simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0088 | 0.035 | 0.14 | 0.12 J |
| Trichloroethene | 79-01-6 | 0.0044 | 0.047 | 0.19 | 0.056 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 113 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 24-CS1-111512 | Date/Time Analyzed: | 12/4/12 08:02 PM |
| Lab ID: | 1211513D-11A | Dilution Factor: | 1.64 |
| Date/Time Collecte | 11/15/12 11:34 AM | Instrument/Filename: | msdv.i / v120415simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0083 | 0.033 | 0.13 | 0.061 J |
| Trichloroethene | 79-01-6 | 0.0041 | 0.044 | 0.18 | 0.051 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 109 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 112 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 27-IA1-111512 | Date/Time Analyzed: | 12/4/12 08:45 PM |
| Lab ID: | 1211513D-12A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 11/15/12 08:26 AM | Instrument/Filename: | msdv.i / v120416simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0078 | 0.031 | 0.12 | 1.5 |
| Trichloroethene | 79-01-6 | 0.0039 | 0.042 | 0.17 | 0.083 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 27-IA2-111512 | Date/Time Analyzed: | 12/4/12 09:23 PM |
| Lab ID: | 1211513D-13A | Dilution Factor: | 1.68 |
| Date/Time Collecte | 11/15/12 08:31 AM | Instrument/Filename: | msdv.i / v120417simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0085 | 0.034 | 0.14 | 1.5 |
| Trichloroethene | 79-01-6 | 0.0042 | 0.045 | 0.18 | 0.050 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 27-CS1-111512 | Date/Time Analyzed: | 12/4/12 09:59 PM |
| Lab ID: | 1211513D-14A | Dilution Factor: | 1.34 |
| Date/Time Collecte | 11/15/12 08:53 AM | Instrument/Filename: | msdv.i / v120418simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.027 | 0.11 | 0.17 |
| Trichloroethene | 79-01-6 | 0.0034 | 0.036 | 0.14 | 0.053 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 112 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 12/4/12 01:32 PM |
| Lab ID: | 1211513D-15A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120406simD |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0050 | 0.020 | 0.081 | 0.025 J |
| Trichloroethene | 79-01-6 | 0.0025 | 0.027 | 0.11 | 0.052 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 106 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 12/4/12 09:25 AM |
| Lab ID: | 1211513D-16A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120402sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 93 |
| Trichloroethene | 79-01-6 | 81 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 109 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 12/4/12 11:20 AM |
| Lab ID: | 1211513D-17A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120404sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 91 |
| Trichloroethene | 79-01-6 | 80 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 12/4/12 12:39 PM |
| Lab ID: | 1211513D-17AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120405sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 91 |
| Trichloroethene | 79-01-6 | 80 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 112 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

* % Recovery is calculated using unrounded analytical results.

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 1 of 5

Project Manager Bill Beattie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@maufoster.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-944-9715 ^{suite 200} Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006-31-01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 1-IA1-111512 | 35558 | 11/15/12 | 13:17 | TO-15 SIM <small>see notes</small> | -30 | -4.5 | | |
| 02A | 1-IA2-111512 | 3748 | 11/15/12 | 13:18 | hold | -30 | 0 | | |
| 03A | 1-IA3-111512 | 34306 | 11/15/12 | 13:20 | TO-15 SIM <small>see notes</small> | -29 | -4.5 | | |
| 04A | 5-IA1-111412 | 424 | 11/14/12 | 11:16 | | -30 | -3.5 | | |
| 05A | 5-IA2-111412 | 3734 | 11/14/12 | 11:19 | | -30 | -3.5 | | |
| 06A | 5-IA3-111412 | 4383 | 11/14/12 | 11:22 | | -30 | -5 | | |
| 07A | 7-IA1-111512 | 14122 | 11/15/12 | 09:51 | | -30 | -5 | | |
| 08A | 7-IA2-111512 | 35241 | 11/15/12 | 09:51 | | -30 | -2.5 | | |
| 09A | 9-IA1-111212 | 33565 | 11/12/12 | 10:03 | | -28 | -3.5 | | |
| 10A | 9-IA2-111212 | 32130 | 11/12/12 | 10:02 | | -30 | -2 | | |

| | | |
|---|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds, see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Page 2 of 3

Project Manager Bill Beattie / Meredith D. Anderson
 Collected by: (Print and Sign) Thomas Ashton
 Company UFA Email tashon@maul-foster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97229
 Phone 503-944-9715 Fax _____

| | | | |
|----------------------------------|--------------------------------|--|--|
| Project Info: | P.O. # _____ | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Lab Use Only |
| | Project # <u>8006-31.01-05</u> | | Pressurized by: |
| Project Name <u>Park Laundry</u> | | | Date: |
| | | | Pressurization Gas: <u>N₂</u> He |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | 0A1-111512 | 20438 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | 0A2-111512 0A1-111612 | 31435 | 11/16/12 | 08:50 | | -29 | -4.5 | | |
| 17A | 0A3-339 0A3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | 0A3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | 0A2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | 0A2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
TO-15 SIM for select compounds.
see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>WPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (818) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
 Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
 CAS = Chemical Abstract Service
 NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/10/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513E

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513E

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/14/2012 | | |
| DATE REISSUED: | 01/10/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|--------------------|-------------------------------|---------------------------|
| 16A | OA1-111612 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 17A | OA3-111512 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 18A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 19A | CCV | Modified TO-15 SIM | NA | NA |
| 20A | LCS | Modified TO-15 SIM | NA | NA |
| 20AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 01/10/13

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

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LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513E

Two 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to $< 40\%$ RSD |
| Daily Calibration | $\pm 30\%$ Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211513A on 12-14-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction

not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA1-111612 | Date/Time Analyzed: | 12/5/12 07:21 AM |
| Lab ID: | 1211513E-16A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 11/16/12 08:50 AM | Instrument/Filename: | msda.i / a120417simE |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.031 | 0.12 | 0.062 J |
| Trichloroethene | 79-01-6 | 0.023 | 0.042 | 0.17 | 0.047 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 0-130 | 118 |
| 4-Bromofluorobenzene | 460-00-4 | 0-130 | 100 |
| Toluene-d8 | 2037-26-5 | 0-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA3-111512 | Date/Time Analyzed: | 12/5/12 08:09 AM |
| Lab ID: | 1211513E-17A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 11/15/12 09:18 AM | Instrument/Filename: | msda.i / a120418simE |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.031 | 0.12 | 0.26 |
| Trichloroethene | 79-01-6 | 0.023 | 0.042 | 0.17 | 0.064 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 0-130 | 115 |
| 4-Bromofluorobenzene | 460-00-4 | 0-130 | 96 |
| Toluene-d8 | 2037-26-5 | 0-130 | 100 |



MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 12/4/12 10:19 PM |
| Lab ID: | 1211513E-18A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120416simE |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0044 | 0.020 | 0.081 | Not Detected |
| Trichloroethene | 79-01-6 | 0.015 | 0.027 | 0.11 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 0-130 | 118 |
| 4-Bromofluorobenzene | 460-00-4 | 0-130 | 99 |
| Toluene-d8 | 2037-26-5 | 0-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 12/4/12 06:01 PM |
| Lab ID: | 1211513E-19A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120412sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 125 |
| Trichloroethene | 79-01-6 | 101 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 12/4/12 06:51 PM |
| Lab ID: | 1211513E-20A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120413sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 120 |
| Trichloroethene | 79-01-6 | 95 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 121 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 106 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 12/4/12 07:46 PM |
| Lab ID: | 1211513E-20AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120414sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 116 |
| Trichloroethene | 79-01-6 | 96 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 122 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 110 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 5

Project Manager Bill Beakie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@maulfooster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

Project Info:
 P.O. # _____
 Project # 8006.31.01-05
 Project Name Park Laundry

Turn Around Time:
 Normal
 Rush
specify
 Lab Use Only
 Pressurized by: _____
 Date: _____
 Pressurization Gas: N₂ He

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | OA1-111512 | 20938 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | OA2-111512 OA1-111612 | 31435 | 11/15/12 | 08:50 | | -29 | -4.5 | | |
| 17A | OA3-339 OA3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | OA3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | OA2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | OA2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

11/20
11/20

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 TO-15 SIM for select compounds.
 see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|--|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |
| NOTES: Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012. CAS = Chemical Abstract Service NE = Not Established $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter. | | | | |

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/13/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211513FR1

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211513FR1

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/26/2012 | | |
| DATE REISSUED: | 01/13/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|--------------------|-------------------------------|---------------------------|
| 15A | OA1-111512 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 18A | OA3-111612 | Modified TO-15 SIM | 3.5 "Hg | 5 psi |
| 19A | OA2-111512 | Modified TO-15 SIM | 0.8 psi | 5 psi |
| 20A | OA2-111612 | Modified TO-15 SIM | 2.0 "Hg | 5 psi |
| 21A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 22A | CCV | Modified TO-15 SIM | NA | NA |
| 23A | LCS | Modified TO-15 SIM | NA | NA |
| 23AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 01/13/13

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

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LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211513FR1

Four 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Despite the use of flow controllers for sample collection, the final canister vacuum for sample OA2-111512 was measured at ambient pressure in the field. This ambient pressure reading was confirmed by the laboratory upon sample receipt.

Samples OA1-111512, OA3-111612, OA2-111512 and OA2-111612 were removed from "Hold" and placed on "Active" status per client request on December 14, 2012.

Analytical Notes

There were no analytical discrepancies.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211513C on 12-26-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

THE WORK ORDER WAS RE-ISSUED ON 1/13/13 TO INCLUDE THE MDL VALUES IN THE FINAL REPORT.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA1-111512 | Date/Time Analyzed: | 12/14/12 11:29 AM |
| Lab ID: | 1211513FR1-15A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/15/12 09:37 AM | Instrument/Filename: | msdv.i / v121407simF |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0077 | 0.031 | 0.12 | 0.081 J |
| Trichloroethene | 79-01-6 | 0.0038 | 0.041 | 0.16 | 0.053 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 111 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA3-111612 | Date/Time Analyzed: | 12/14/12 12:22 PM |
| Lab ID: | 1211513FR1-18A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/16/12 09:06 AM | Instrument/Filename: | msdv.i / v121408simF |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0077 | 0.031 | 0.12 | 0.068 J |
| Trichloroethene | 79-01-6 | 0.0038 | 0.041 | 0.16 | 0.060 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 107 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA2-111512 | Date/Time Analyzed: | 12/14/12 01:57 PM |
| Lab ID: | 1211513FR1-19A | Dilution Factor: | 1.27 |
| Date/Time Collecte | 11/15/12 09:27 AM | Instrument/Filename: | msdv.i / v121409simF |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0064 | 0.026 | 0.10 | 0.056 J |
| Trichloroethene | 79-01-6 | 0.0032 | 0.034 | 0.14 | 0.048 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 101 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 106 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | OA2-111612 | Date/Time Analyzed: | 12/14/12 02:33 PM |
| Lab ID: | 1211513FR1-20A | Dilution Factor: | 1.44 |
| Date/Time Collecte | 11/16/12 08:59 AM | Instrument/Filename: | msdv.i / v121410simF |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0073 | 0.029 | 0.12 | 0.069 J |
| Trichloroethene | 79-01-6 | 0.0036 | 0.039 | 0.15 | 0.047 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 111 |
| Toluene-d8 | 2037-26-5 | 70-130 | 107 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 12/14/12 10:32 AM |
| Lab ID: | 1211513FR1-21A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v121406simF |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0050 | 0.020 | 0.081 | 0.016 J |
| Trichloroethene | 79-01-6 | 0.0025 | 0.027 | 0.11 | 0.023 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 113 |
| Toluene-d8 | 2037-26-5 | 70-130 | 106 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 12/14/12 07:14 AM |
| Lab ID: | 1211513FR1-22A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v121402sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 80 |
| Trichloroethene | 79-01-6 | 73 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 12/14/12 08:15 AM |
| Lab ID: | 1211513FR1-23A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v121403sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 75 |
| Trichloroethene | 79-01-6 | 72 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 12/14/12 09:00 AM |
| Lab ID: | 1211513FR1-23AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v121404sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 82 |
| Trichloroethene | 79-01-6 | 79 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 2 of 5

Project Manager Bill Beakie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@maulfooster.com
 Address 2001 NW 14th Ave Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | | |
|----------------------------------|--------------------------------|--|--|
| Project Info: | P.O. # _____ | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Lab Use Only Pressurized by: |
| | Project # <u>8006.31.01-05</u> | | Date: |
| Project Name <u>Park Laundry</u> | | | Pressurization Gas: N ₂ He |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|----------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 24-CSI-111512 | 12330 | 11/15/12 | 11:34 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 12A | 27-IA1-111512 | 33781 | 11/15/12 | 08:26 | | -30 | -5 | | |
| 13A | 27-IA2-111512 | 5761 | 11/15/12 | 08:31 | | -30 | -5 | | |
| 14A | 27-CSI-111512 | 21013 | 11/15/12 | 08:53 | | -28 | -0.5 | | |
| 15A | OA1-111512 | 20938 | 11/15/12 | 09:37 | | -29.5 | -5 | | |
| 16A | OA2-111512 OA1-111612 | 31435 | 11/15/12 | 08:50 | | -29 | -4.5 | | |
| 17A | OA3-339 OA3-111512 | 33938 | 11/15/12 | 09:18 | | -30 | -5 | | |
| 18A | OA3-111612 | 9925 | 11/16/12 | 09:06 | | -30 | -5 | | |
| 19A | OA2-111512 | 34485 | 11/15/12 | 09:27 | hold | -30 | 0 | | |
| 20A | OA2-111612 | 9417 | 11/16/12 | 08:59 | hold | -30 | 0 | | |

11/17
11/20

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
TO-15 SIM for select compounds.
see attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211513</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-6000

1211513

Mr. Guy Barrett
 October 12, 2012
 Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|--|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |
| NOTES: Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012. CAS = Chemical Abstract Service NE = Not Established $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter. | | | | |

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/13/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211514A

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211514A

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/13/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 10-IA1-111512 | Modified TO-15 SIM | 7.0 "Hg | 5 psi |
| 02A | 10-IA2-111512 | Modified TO-15 SIM | 5.0 "Hg | 5 psi |
| 03A | 10-CS1-111512 | Modified TO-15 SIM | 0.8 "Hg | 5 psi |
| 04A | 11-IA1-111512 | Modified TO-15 SIM | 4.8 "Hg | 5 psi |
| 05A | 11-IA2-111512 | Modified TO-15 SIM | 3.6 "Hg | 5 psi |
| 06A | 11-IA3-111512 | Modified TO-15 SIM | 3.6 "Hg | 5 psi |
| 07A | 13-IA1-111612 | Modified TO-15 SIM | 4.2 "Hg | 5 psi |
| 08A | 13-IA2-111612 | Modified TO-15 SIM | 4.8 "Hg | 5 psi |
| 09A | 24-IA1-111612 | Modified TO-15 SIM | 3.8 "Hg | 5 psi |
| 10A | 24-IA2-111612 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 11A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 12A | CCV | Modified TO-15 SIM | NA | NA |
| 13A | LCS | Modified TO-15 SIM | NA | NA |
| 13AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/13/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211514A

Ten 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: 10-IA1-111512

Lab ID#: 1211514A-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.035 | 0.082 | 0.14 | 0.33 |

Client Sample ID: 10-IA2-111512

Lab ID#: 1211514A-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.032 | 0.11 | 0.13 | 0.44 |

Client Sample ID: 10-CS1-111512

Lab ID#: 1211514A-03A

No Detections Were Found.

Client Sample ID: 11-IA1-111512

Lab ID#: 1211514A-04A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.032 | 0.056 | 0.13 | 0.22 |
| Tetrachloroethene | 0.032 | 0.034 | 0.22 | 0.23 |

Client Sample ID: 11-IA2-111512

Lab ID#: 1211514A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.030 | 0.050 | 0.12 | 0.20 |

Client Sample ID: 11-IA3-111512

Lab ID#: 1211514A-06A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.030 | 0.048 | 0.12 | 0.19 |
| Tetrachloroethene | 0.030 | 0.040 | 0.21 | 0.27 |

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM**

Client Sample ID: 13-IA1-111612

Lab ID#: 1211514A-07A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.031 | 0.12 | 0.13 | 0.48 |

Client Sample ID: 13-IA2-111612

Lab ID#: 1211514A-08A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|--------------------------|----------------------|---------------------------|-----------------------|
| 1,2-Dichloroethane | 0.032 | 0.16 | 0.13 | 0.67 |

Client Sample ID: 24-IA1-111612

Lab ID#: 1211514A-09A

No Detections Were Found.

Client Sample ID: 24-IA2-111612

Lab ID#: 1211514A-10A

No Detections Were Found.



Air Toxics

Client Sample ID: 10-IA1-111512

Lab ID#: 1211514A-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | a120419sim | Date of Collection: 11/15/12 10:03:00 A |
| Dil. Factor: | 1.75 | Date of Analysis: 12/5/12 08:53 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.018 | Not Detected | 0.045 | Not Detected |
| 1,1-Dichloroethene | 0.018 | Not Detected | 0.069 | Not Detected |
| 1,1-Dichloroethane | 0.035 | Not Detected | 0.14 | Not Detected |
| cis-1,2-Dichloroethene | 0.035 | Not Detected | 0.14 | Not Detected |
| 1,2-Dichloroethane | 0.035 | 0.082 | 0.14 | 0.33 |
| Trichloroethene | 0.035 | Not Detected | 0.19 | Not Detected |
| Tetrachloroethene | 0.035 | Not Detected | 0.24 | Not Detected |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.69 | Not Detected |
| Chloroethane | 0.088 | Not Detected | 0.23 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 116 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: 10-IA2-111512

Lab ID#: 1211514A-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120420sim | Date of Collection: | 11/15/12 10:07:00 A |
| Dil. Factor: | 1.61 | Date of Analysis: | 12/5/12 09:30 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.041 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.064 | Not Detected |
| 1,1-Dichloroethane | 0.032 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.032 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.032 | 0.11 | 0.13 | 0.44 |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.032 | Not Detected | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.64 | Not Detected |
| Chloroethane | 0.080 | Not Detected | 0.21 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 117 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |



Client Sample ID: 10-CS1-111512

Lab ID#: 1211514A-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120421sim | Date of Collection: | 11/15/12 10:14:00 A |
| Dil. Factor: | 1.38 | Date of Analysis: | 12/5/12 10:06 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.014 | Not Detected | 0.035 | Not Detected |
| 1,1-Dichloroethene | 0.014 | Not Detected | 0.055 | Not Detected |
| 1,1-Dichloroethane | 0.028 | Not Detected | 0.11 | Not Detected |
| cis-1,2-Dichloroethene | 0.028 | Not Detected | 0.11 | Not Detected |
| 1,2-Dichloroethane | 0.028 | Not Detected | 0.11 | Not Detected |
| Trichloroethene | 0.028 | Not Detected | 0.15 | Not Detected |
| Tetrachloroethene | 0.028 | Not Detected | 0.19 | Not Detected |
| trans-1,2-Dichloroethene | 0.14 | Not Detected | 0.55 | Not Detected |
| Chloroethane | 0.069 | Not Detected | 0.18 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |



Air Toxics

Client Sample ID: 11-IA1-111512

Lab ID#: 1211514A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120422sim | Date of Collection: | 11/15/12 10:40:00 A |
| Dil. Factor: | 1.60 | Date of Analysis: | 12/5/12 10:42 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.041 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.063 | Not Detected |
| 1,1-Dichloroethane | 0.032 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.032 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.032 | 0.056 | 0.13 | 0.22 |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.032 | 0.034 | 0.22 | 0.23 |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Chloroethane | 0.080 | Not Detected | 0.21 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |



Air Toxics

Client Sample ID: 11-IA2-111512

Lab ID#: 1211514A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120423sim | Date of Collection: | 11/15/12 10:42:00 A |
| Dil. Factor: | 1.52 | Date of Analysis: | 12/5/12 11:21 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | 0.050 | 0.12 | 0.20 |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 113 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 94 | 70-130 |



Air Toxics

Client Sample ID: 11-IA3-111512

Lab ID#: 1211514A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120424sim | Date of Collection: | 11/15/12 10:43:00 A |
| Dil. Factor: | 1.52 | Date of Analysis: | 12/5/12 12:12 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.060 | Not Detected |
| 1,1-Dichloroethane | 0.030 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.030 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.030 | 0.048 | 0.12 | 0.19 |
| Trichloroethene | 0.030 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.030 | 0.040 | 0.21 | 0.27 |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.60 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 119 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: 13-IA1-111612

Lab ID#: 1211514A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120425sim | Date of Collection: | 11/16/12 9:39:00 AM |
| Dil. Factor: | 1.56 | Date of Analysis: | 12/5/12 12:48 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.062 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | 0.12 | 0.13 | 0.48 |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.62 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 115 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 92 | 70-130 |



Client Sample ID: 13-IA2-111612

Lab ID#: 1211514A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120426sim | Date of Collection: | 11/16/12 9:46:00 AM |
| Dil. Factor: | 1.60 | Date of Analysis: | 12/5/12 01:24 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.041 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.063 | Not Detected |
| 1,1-Dichloroethane | 0.032 | Not Detected | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 0.032 | Not Detected | 0.13 | Not Detected |
| 1,2-Dichloroethane | 0.032 | 0.16 | 0.13 | 0.67 |
| Trichloroethene | 0.032 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.032 | Not Detected | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Chloroethane | 0.080 | Not Detected | 0.21 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 116 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 95 | 70-130 |



Air Toxics

Client Sample ID: 24-IA1-111612

Lab ID#: 1211514A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|---------------------|------------|--|
| File Name: | a120427sim | Date of Collection: 11/16/12 11:49:00 A |
| Dil. Factor: | 1.53 | Date of Analysis: 12/5/12 02:00 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.015 | Not Detected | 0.039 | Not Detected |
| 1,1-Dichloroethene | 0.015 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.031 | Not Detected | 0.16 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.15 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.076 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |



Air Toxics

Client Sample ID: 24-IA2-111612

Lab ID#: 1211514A-10A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|---------------------|
| File Name: | a120428sim | Date of Collection: | 11/16/12 10:58:00 A |
| Dil. Factor: | 1.55 | Date of Analysis: | 12/5/12 02:36 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.016 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethene | 0.016 | Not Detected | 0.061 | Not Detected |
| 1,1-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| cis-1,2-Dichloroethene | 0.031 | Not Detected | 0.12 | Not Detected |
| 1,2-Dichloroethane | 0.031 | Not Detected | 0.12 | Not Detected |
| Trichloroethene | 0.031 | Not Detected | 0.17 | Not Detected |
| Tetrachloroethene | 0.031 | Not Detected | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.078 | Not Detected | 0.20 | Not Detected |

Container Type: 6 Liter Summa Canister (SIM Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 119 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 96 | 70-130 |



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1211514A-11A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | | |
|--------------|------------|---------------------|------------------|
| File Name: | a120416sim | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 12/4/12 10:19 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.010 | Not Detected | 0.026 | Not Detected |
| 1,1-Dichloroethene | 0.010 | Not Detected | 0.040 | Not Detected |
| 1,1-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| cis-1,2-Dichloroethene | 0.020 | Not Detected | 0.079 | Not Detected |
| 1,2-Dichloroethane | 0.020 | Not Detected | 0.081 | Not Detected |
| Trichloroethene | 0.020 | Not Detected | 0.11 | Not Detected |
| Tetrachloroethene | 0.020 | Not Detected | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Chloroethane | 0.050 | Not Detected | 0.13 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 118 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1211514A-12A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120412sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 06:01 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 91 |
| 1,1-Dichloroethene | 102 |
| 1,1-Dichloroethane | 117 |
| cis-1,2-Dichloroethene | 108 |
| 1,2-Dichloroethane | 125 |
| Trichloroethene | 101 |
| Tetrachloroethene | 98 |
| trans-1,2-Dichloroethene | 108 |
| Chloroethane | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211514A-13A

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120413sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 06:51 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 101 |
| 1,1-Dichloroethene | 102 |
| 1,1-Dichloroethane | 113 |
| cis-1,2-Dichloroethene | 101 |
| 1,2-Dichloroethane | 120 |
| Trichloroethene | 95 |
| Tetrachloroethene | 86 |
| trans-1,2-Dichloroethene | 112 |
| Chloroethane | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 121 | 70-130 |
| Toluene-d8 | 106 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 1211514A-13AA

MODIFIED EPA METHOD TO-15 GC/MS SIM

| | | |
|--------------|------------|------------------------------------|
| File Name: | a120414sim | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/4/12 07:46 PM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 104 |
| 1,1-Dichloroethene | 95 |
| 1,1-Dichloroethane | 108 |
| cis-1,2-Dichloroethene | 99 |
| 1,2-Dichloroethane | 116 |
| Trichloroethene | 96 |
| Tetrachloroethene | 89 |
| trans-1,2-Dichloroethene | 105 |
| Chloroethane | 99 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 122 | 70-130 |
| Toluene-d8 | 110 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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(916) 985-1000 FAX (916) 985-1020

Page 3 of 5

Project Manager Bill Beaudie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 Suite 200 Fax _____

| | | |
|---|--|--|
| Project Info: P.O. # _____ Project # <u>8006.31.01-05</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Lab Use Only Pressurized by: Date: Pressurization Gas: <u>N₂ He</u> |
|---|--|--|

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-111512 | 23925 | 11/15/12 | 10:03 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 02A | 10-IA2-111512 | 32107 | 11/15/12 | 10:07 | | -30 | -4.5 | | |
| 03A | 10-CSI-111512 | 31432 | 11/15/12 | 10:14 | | -30 | -1.5 | | |
| 04A | 11-IA1-111512 | 34190 | 11/15/12 | 10:40 | | -30 | -5 | | |
| 05A | 11-IA2-111512 | 14010 | 11/15/12 | 10:42 | | -30 | -4 | | |
| 06A | 11-IA3-111512 | 5599 | 11/15/12 | 10:43 | | -29.5 | -4 | | |
| 07A | 13-IA1-111612 | 34241 | 11/16/12 | 09:39 | | -29 | -4 | | |
| 08A | 13-IA2-111612 | 5600 | 11/16/12 | 09:46 | | -30 | -5 | | |
| 09A | 24-IA1-111612 | 33925 | 11/16/12 | 11:49 | | -30 | 4.5 | | |
| 10A | 24-IA2-111612 | 34737 | 11/16/12 | 10:58 | | -28 | -4 | | |

| | | |
|---|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds. see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|---------------------------|-----------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>FedEx</u> | Air Bill # <u>701</u> | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
| | <u>UPS</u> | <u>11/26/12</u> | | | | |



CHAIN-OF-CUSTODY RECORD

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Barchia / Meredith DiAndrea
 Collected by: (Print and Sign) Thomas Achten
 Company Max Foster + Abongi Email taskforce@maxfoster.com
 Address 2001 NW 14th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 ^{Suite 200} Fax _____

| | | |
|---------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | Project # <u>8006.31.01-05</u> | Project Name <u>Park Laundry</u> |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 1-SS1-111512 | 94521 | 11/15/12 | 16:37 | TO-15 SEM | -28 | -4.5 | | |
| 12A | 1-SS2-111512 | 36569 | 11/15/12 | 17:10 | | -30 | -4.5 | | |
| 13A | 1-SS3-111512 | 9495 | 11/15/12 | 17:23 | | -30 | -4.5 | | |
| 14A | 7-SS1-111512 | 15748 | 11/15/12 | 13:10 | | -29 | -4.5 | | |
| 15A | 7-SS2-111512 | 35690 | 11/15/12 | 13:29 | | -28.5 | -4 | | |
| 16A | 7-SS3-111512 | 97105 | 11/15/12 | 14:07 | | -30 | -4.5 | | |
| 17A | 11-SS1-111512 | 9453 | 11/15/12 | 14:35 | | -29.5 | -4.5 | | |
| 18A | 11-SS2-111512 | 34609 | 11/15/12 | 15:24 | | -28 | -4.5 | | |
| 19A | 11-SS3-111512 | 9518 | 11/15/12 | 15:30 | | -29.5 | -4.5 | | |
| 20A | 11-SS4-111512 | 93109 | 11/15/12 | 16:22 | | -28.5 | -4.5 | | |

TOP 11/20/12

| | | |
|--|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>1300 11/20/12</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>1000 11/20/12</u> | Notes: TO-15 SEM for select compounds. See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

1211514

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/13/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211514B

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211514B

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/13/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|----------------|-------------------------------|---------------------------|
| 11A | 1-SS1-111512 | Modified TO-15 | 3.4 "Hg | 15 psi |
| 12A | 1-SS2-111512 | Modified TO-15 | 2.6 "Hg | 15 psi |
| 13A | 1-SS3-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 14A | 7-SS1-111512 | Modified TO-15 | 3.8 "Hg | 15 psi |
| 15A | 7-SS2-111512 | Modified TO-15 | 4.8 "Hg | 15 psi |
| 16A | 7-SS3-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 17A | 11-SS1-111512 | Modified TO-15 | 0.2 "Hg | 15 psi |
| 18A | 11-SS2-111512 | Modified TO-15 | 3.8 "Hg | 15 psi |
| 19A | 11-SS3-111512 | Modified TO-15 | 6.4 "Hg | 15 psi |
| 20A | 11-SS4-111512 | Modified TO-15 | 3.4 "Hg | 15 psi |
| 21A | Lab Blank | Modified TO-15 | NA | NA |
| 22A | CCV | Modified TO-15 | NA | NA |
| 23A | LCS | Modified TO-15 | NA | NA |
| 23AA | LCS D | Modified TO-15 | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/13/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15
Maul Foster and Alongi Inc.
Workorder# 1211514B

Ten 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|---------------------|--|--|
| Initial Calibration | </=30% RSD with 2 compounds allowed out to < 40% RSD | </=30% RSD with 4 compounds allowed out to < 40% RSD |
| Blank and standards | Zero Air | UHP Nitrogen provides a higher purity gas matrix than zero air |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples 11-SS2-111512, 11-SS3-111512, and 11-SS4-111512 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the reporting limit.
- UJ- Non-detected compound associated with low bias in the CCV and/or LCS.
- N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 1-SS1-111512

Lab ID#: 1211514B-11A

No Detections Were Found.

Client Sample ID: 1-SS2-111512

Lab ID#: 1211514B-12A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Tetrachloroethene | 0.22 | 0.33 | 1.5 | 2.2 |

Client Sample ID: 1-SS3-111512

Lab ID#: 1211514B-13A

No Detections Were Found.

Client Sample ID: 7-SS1-111512

Lab ID#: 1211514B-14A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Tetrachloroethene | 0.23 | 1.8 | 1.6 | 12 |

Client Sample ID: 7-SS2-111512

Lab ID#: 1211514B-15A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Tetrachloroethene | 0.24 | 1.2 | 1.6 | 7.8 |

Client Sample ID: 7-SS3-111512

Lab ID#: 1211514B-16A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|----------------------|------------------|-----------------------|-------------------|
| Tetrachloroethene | 0.23 | 2.0 | 1.5 | 14 |

Client Sample ID: 11-SS1-111512

Lab ID#: 1211514B-17A

No Detections Were Found.

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: 11-SS2-111512

Lab ID#: 1211514B-18A

No Detections Were Found.

Client Sample ID: 11-SS3-111512

Lab ID#: 1211514B-19A

No Detections Were Found.

Client Sample ID: 11-SS4-111512

Lab ID#: 1211514B-20A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|------------------------------|--------------------------|-------------------------------|---------------------------|
| Tetrachloroethene | 0.71 | 1.0 | 4.8 | 6.9 |



Client Sample ID: 1-SS1-111512

Lab ID#: 1211514B-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v113010 | Date of Collection: | 11/15/12 4:37:00 PM |
| Dil. Factor: | 2.28 | Date of Analysis: | 11/30/12 02:10 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.23 | Not Detected | 0.58 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.92 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.92 | Not Detected |
| Trichloroethene | 0.23 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.23 | Not Detected | 1.5 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |



Air Toxics

Client Sample ID: 1-SS2-111512

Lab ID#: 1211514B-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|---------------------|---------|----------------------------|---------------------|
| File Name: | v113011 | Date of Collection: | 11/15/12 5:10:00 PM |
| Dil. Factor: | 2.21 | Date of Analysis: | 11/30/12 03:04 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.22 | Not Detected | 0.56 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.89 | Not Detected |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.88 | Not Detected |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.89 | Not Detected |
| Trichloroethene | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 0.33 | 1.5 | 2.2 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 99 | 70-130 |



Air Toxics

Client Sample ID: 1-SS3-111512

Lab ID#: 1211514B-13A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|---------------------|---------|----------------------------|---------------------|
| File Name: | v113012 | Date of Collection: | 11/15/12 5:23:00 PM |
| Dil. Factor: | 2.26 | Date of Analysis: | 11/30/12 04:25 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.23 | Not Detected | 0.58 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.91 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.91 | Not Detected |
| Trichloroethene | 0.23 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.23 | Not Detected | 1.5 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 110 | 70-130 |



Client Sample ID: 7-SS1-111512

Lab ID#: 1211514B-14A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v113013 | Date of Collection: | 11/15/12 1:10:00 PM |
| Dil. Factor: | 2.31 | Date of Analysis: | 11/30/12 05:02 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.23 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.92 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.92 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.94 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | Not Detected | 0.92 | Not Detected |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.93 | Not Detected |
| Trichloroethene | 0.23 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.23 | 1.8 | 1.6 | 12 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |



Air Toxics

Client Sample ID: 7-SS2-111512

Lab ID#: 1211514B-15A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v113014 | Date of Collection: | 11/15/12 1:29:00 PM |
| Dil. Factor: | 2.40 | Date of Analysis: | 11/30/12 05:52 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.24 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 1.2 | Not Detected | 3.2 | Not Detected |
| 1,1-Dichloroethene | 0.24 | Not Detected | 0.95 | Not Detected |
| trans-1,2-Dichloroethene | 0.24 | Not Detected | 0.95 | Not Detected |
| 1,1-Dichloroethane | 0.24 | Not Detected | 0.97 | Not Detected |
| cis-1,2-Dichloroethene | 0.24 | Not Detected | 0.95 | Not Detected |
| 1,2-Dichloroethane | 0.24 | Not Detected | 0.97 | Not Detected |
| Trichloroethene | 0.24 | Not Detected | 1.3 | Not Detected |
| Tetrachloroethene | 0.24 | 1.2 | 1.6 | 7.8 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |



Client Sample ID: 7-SS3-111512

Lab ID#: 1211514B-16A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|---------|--|
| File Name: | v113015 | Date of Collection: 11/15/12 2:07:00 PM |
| Dil. Factor: | 2.26 | Date of Analysis: 11/30/12 06:43 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.23 | Not Detected | 0.58 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.91 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | Not Detected | 0.90 | Not Detected |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.91 | Not Detected |
| Trichloroethene | 0.23 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.23 | 2.0 | 1.5 | 14 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |



Air Toxics

Client Sample ID: 11-SS1-111512

Lab ID#: 1211514B-17A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v113016 | Date of Collection: | 11/15/12 2:35:00 PM |
| Dil. Factor: | 2.03 | Date of Analysis: | 11/30/12 07:19 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.20 | Not Detected | 0.52 | Not Detected |
| Chloroethane | 1.0 | Not Detected | 2.7 | Not Detected |
| 1,1-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| trans-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| 1,1-Dichloroethane | 0.20 | Not Detected | 0.82 | Not Detected |
| cis-1,2-Dichloroethene | 0.20 | Not Detected | 0.80 | Not Detected |
| 1,2-Dichloroethane | 0.20 | Not Detected | 0.82 | Not Detected |
| Trichloroethene | 0.20 | Not Detected | 1.1 | Not Detected |
| Tetrachloroethene | 0.20 | Not Detected | 1.4 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |



Air Toxics

Client Sample ID: 11-SS2-111512

Lab ID#: 1211514B-18A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|---------|--|
| File Name: | v113017 | Date of Collection: 11/15/12 3:24:00 PM |
| Dil. Factor: | 4.62 | Date of Analysis: 11/30/12 08:55 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.46 | Not Detected | 1.2 | Not Detected |
| Chloroethane | 2.3 | Not Detected | 6.1 | Not Detected |
| 1,1-Dichloroethene | 0.46 | Not Detected | 1.8 | Not Detected |
| trans-1,2-Dichloroethene | 0.46 | Not Detected | 1.8 | Not Detected |
| 1,1-Dichloroethane | 0.46 | Not Detected | 1.9 | Not Detected |
| cis-1,2-Dichloroethene | 0.46 | Not Detected | 1.8 | Not Detected |
| 1,2-Dichloroethane | 0.46 | Not Detected | 1.9 | Not Detected |
| Trichloroethene | 0.46 | Not Detected | 2.5 | Not Detected |
| Tetrachloroethene | 0.46 | Not Detected | 3.1 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |



Air Toxics

Client Sample ID: 11-SS3-111512

Lab ID#: 1211514B-19A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v113018 | Date of Collection: | 11/15/12 3:30:00 PM |
| Dil. Factor: | 5.14 | Date of Analysis: | 11/30/12 09:31 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.51 | Not Detected | 1.3 | Not Detected |
| Chloroethane | 2.6 | Not Detected | 6.8 | Not Detected |
| 1,1-Dichloroethene | 0.51 | Not Detected | 2.0 | Not Detected |
| trans-1,2-Dichloroethene | 0.51 | Not Detected | 2.0 | Not Detected |
| 1,1-Dichloroethane | 0.51 | Not Detected | 2.1 | Not Detected |
| cis-1,2-Dichloroethene | 0.51 | Not Detected | 2.0 | Not Detected |
| 1,2-Dichloroethane | 0.51 | Not Detected | 2.1 | Not Detected |
| Trichloroethene | 0.51 | Not Detected | 2.8 | Not Detected |
| Tetrachloroethene | 0.51 | Not Detected | 3.5 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 109 | 70-130 |



Air Toxics

Client Sample ID: 11-SS4-111512

Lab ID#: 1211514B-20A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|---------------------|---------|----------------------------|---------------------|
| File Name: | v113019 | Date of Collection: | 11/15/12 4:22:00 PM |
| Dil. Factor: | 7.12 | Date of Analysis: | 11/30/12 10:17 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.71 | Not Detected | 1.8 | Not Detected |
| Chloroethane | 3.6 | Not Detected | 9.4 | Not Detected |
| 1,1-Dichloroethene | 0.71 | Not Detected | 2.8 | Not Detected |
| trans-1,2-Dichloroethene | 0.71 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethane | 0.71 | Not Detected | 2.9 | Not Detected |
| cis-1,2-Dichloroethene | 0.71 | Not Detected | 2.8 | Not Detected |
| 1,2-Dichloroethane | 0.71 | Not Detected | 2.9 | Not Detected |
| Trichloroethene | 0.71 | Not Detected | 3.8 | Not Detected |
| Tetrachloroethene | 0.71 | 1.0 | 4.8 | 6.9 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 1211514B-21A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|---------|--|
| File Name: | v113009 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 01:08 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Client Sample ID: CCV

Lab ID#: 1211514B-22A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|--|
| File Name: | v113004 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 09:02 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 92 |
| Chloroethane | 92 |
| 1,1-Dichloroethene | 102 |
| trans-1,2-Dichloroethene | 100 |
| 1,1-Dichloroethane | 100 |
| cis-1,2-Dichloroethene | 99 |
| 1,2-Dichloroethane | 110 |
| Trichloroethene | 98 |
| Tetrachloroethene | 107 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211514B-23A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|--|
| File Name: | v113005 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 09:49 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 88 |
| Chloroethane | 87 |
| 1,1-Dichloroethene | 99 |
| trans-1,2-Dichloroethene | 104 |
| 1,1-Dichloroethane | 93 |
| cis-1,2-Dichloroethene | 90 |
| 1,2-Dichloroethane | 104 |
| Trichloroethene | 92 |
| Tetrachloroethene | 100 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1211514B-23AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|-------------------------------------|
| File Name: | v113006 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 10:32 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 89 |
| Chloroethane | 86 |
| 1,1-Dichloroethene | 101 |
| trans-1,2-Dichloroethene | 105 |
| 1,1-Dichloroethane | 93 |
| cis-1,2-Dichloroethene | 90 |
| 1,2-Dichloroethane | 102 |
| Trichloroethene | 91 |
| Tetrachloroethene | 104 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

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CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 3 of 5

Project Manager Bill Bendie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 suite 200 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

TRW
11/20/12

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|--------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-111512 | 23925 | 11/15/12 | 10:03 | TO-15 SIM ^{see notes} | -30 | -5 | | |
| 02A | 10-IA2-111512 | 32107 | 11/15/12 | 10:07 | | -30 | -4.5 | | |
| 03A | 10-CS1-111512 | 31432 | 11/15/12 | 10:14 | | -30 | -1.5 | | |
| 04A | 11-IA1-111512 | 34190 | 11/15/12 | 10:40 | | -30 | -5 | | |
| 05A | 11-IA2-111512 | 14010 | 11/15/12 | 10:42 | | -30 | -4 | | |
| 06A | 11-IA3-111512 | 5599 | 11/15/12 | 10:43 | | -29.5 | -4 | | |
| 07A | 13-IA1-111612 | 34241 | 11/16/12 | 09:39 | | -29 | -4 | | |
| 08A | 13-IA2-111612 | 5600 | 11/16/12 | 09:46 | | -30 | -5 | | |
| 09A | 24-IA1-111612 | 33925 | 11/16/12 | 11:49 | | -30 | 4.5 | | |
| 10A | 24-IA2-111612 | 34737 | 11/16/12 | 10:58 | | -28 | -4 | | |

| | | |
|---|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>TRW</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds. see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>FedEx TRW</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
| | <u>UPS 11/26/12</u> | | | | | |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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(916) 985-1000 FAX (916) 985-1020

Page 4 of 5

Project Manager Bill Bessie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Max Foster + Abingi Email taskton@maxfoster.com
 Address 2001 NW 14th Ave. Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 1-551-111512 | 94521 | 11/15/12 | 16:37 | TO-15 SIM | -28 | -4.5 | | |
| 12A | 1-552-111512 | 36569 | 11/15/12 | 17:10 | | -30 | -4.5 | | |
| 13A | 1-553-111512 | 9495 | 11/15/12 | 17:23 | | -30 | -4.5 | | |
| 14A | 7-551-111512 | 15748 | 11/15/12 | 13:10 | | -29 | -4.5 | | |
| 15A | 7-552-111512 | 35690 | 11/15/12 | 13:29 | | -28.5 | -4 | | |
| 16A | 7-553-111512 | 97105 | 11/15/12 | 14:07 | | -30 | -4.5 | | |
| 17A | 11-551-111512 | 9453 | 11/15/12 | 14:35 | | -29.5 | -4.5 | | |
| 18A | 11-552-111512 | 34609 | 11/15/12 | 15:24 | | -28 | -4.5 | | |
| 19A | 11-553-111512 | 9518 | 11/15/12 | 15:30 | | -29.5 | -4.5 | | |
| 20A | 11-554-111512 | 93109 | 11/15/12 | 16:22 | | -28.5 | -4.5 | | |

| | | |
|--|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>1300 11/20/12</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>1000 11/20/12</u> | Notes: TO-15 SIM for select compounds See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-8000

121151X

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/5/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry

Project #: 8006.31.01-05

Workorder #: 1211514C

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211514C

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/05/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-----------------------------|----------------------|-------------------------------|---------------------------|
| 11A | 1-SS1-111512 | Modified ASTM D-1946 | 3.4 "Hg | 15 psi |
| 12A | 1-SS2-111512 | Modified ASTM D-1946 | 2.6 "Hg | 15 psi |
| 13A | 1-SS3-111512 | Modified ASTM D-1946 | 3.2 "Hg | 15 psi |
| 14A | 7-SS1-111512 | Modified ASTM D-1946 | 3.8 "Hg | 15 psi |
| 15A | 7-SS2-111512 | Modified ASTM D-1946 | 4.8 "Hg | 15 psi |
| 16A | 7-SS3-111512 | Modified ASTM D-1946 | 3.2 "Hg | 15 psi |
| 17A | 11-SS1-111512 | Modified ASTM D-1946 | 0.2 "Hg | 15 psi |
| 18A | 11-SS2-111512 | Modified ASTM D-1946 | 3.8 "Hg | 15 psi |
| 18AA | 11-SS2-111512 Lab Duplicate | Modified ASTM D-1946 | 3.8 "Hg | 15 psi |
| 19A | 11-SS3-111512 | Modified ASTM D-1946 | 6.4 "Hg | 15 psi |
| 20A | 11-SS4-111512 | Modified ASTM D-1946 | 3.4 "Hg | 15 psi |
| 21A | Lab Blank | Modified ASTM D-1946 | NA | NA |
| 22A | LCS | Modified ASTM D-1946 | NA | NA |
| 22AA | LCSD | Modified ASTM D-1946 | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/05/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified ASTM D-1946
Maul Foster and Alongi Inc.
Workorder# 1211514C

Ten 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1946</i> | <i>ATL Modifications</i> |
|-------------------------|--|--|
| Calibration | A single point calibration is performed using a reference standard closely matching the composition of the unknown. | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples. |
| Reference Standard | The composition of any reference standard must be known to within 0.01 mol % for any component. | The standards used by ATL are blended to a $\geq 95\%$ accuracy. |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL. | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix. |
| Precision | Precision requirements established at each concentration level. | Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL. |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: 1-SS1-111512

Lab ID#: 1211514C-11A

No Detections Were Found.

Client Sample ID: 1-SS2-111512

Lab ID#: 1211514C-12A

No Detections Were Found.

Client Sample ID: 1-SS3-111512

Lab ID#: 1211514C-13A

No Detections Were Found.

Client Sample ID: 7-SS1-111512

Lab ID#: 1211514C-14A

No Detections Were Found.

Client Sample ID: 7-SS2-111512

Lab ID#: 1211514C-15A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.59 |

Client Sample ID: 7-SS3-111512

Lab ID#: 1211514C-16A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | 0.24 |

Client Sample ID: 11-SS1-111512

Lab ID#: 1211514C-17A

No Detections Were Found.

Client Sample ID: 11-SS2-111512

Lab ID#: 1211514C-18A

**Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946**

Client Sample ID: 11-SS2-111512

Lab ID#: 1211514C-18A

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.38 |

Client Sample ID: 11-SS2-111512 Lab Duplicate

Lab ID#: 1211514C-18AA

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.36 |

Client Sample ID: 11-SS3-111512

Lab ID#: 1211514C-19A

No Detections Were Found.

Client Sample ID: 11-SS4-111512

Lab ID#: 1211514C-20A

No Detections Were Found.



Air Toxics

Client Sample ID: 1-SS1-111512

Lab ID#: 1211514C-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113006 | Date of Collection: | 11/15/12 4:37:00 PM |
| Dil. Factor: | 2.28 | Date of Analysis: | 11/30/12 09:17 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 1-SS2-111512

Lab ID#: 1211514C-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113007 | Date of Collection: | 11/15/12 5:10:00 PM |
| Dil. Factor: | 2.21 | Date of Analysis: | 11/30/12 09:28 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 1-SS3-111512

Lab ID#: 1211514C-13A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113005 | Date of Collection: | 11/15/12 5:23:00 PM |
| Dil. Factor: | 2.26 | Date of Analysis: | 11/30/12 09:08 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 7-SS1-111512

Lab ID#: 1211514C-14A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113008 | Date of Collection: | 11/15/12 1:10:00 PM |
| Dil. Factor: | 2.31 | Date of Analysis: | 11/30/12 09:37 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.12 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 7-SS2-111512

Lab ID#: 1211514C-15A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113009 | Date of Collection: | 11/15/12 1:29:00 PM |
| Dil. Factor: | 2.40 | Date of Analysis: | 11/30/12 09:45 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.59 |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 7-SS3-111512

Lab ID#: 1211514C-16A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113010 | Date of Collection: | 11/15/12 2:07:00 PM |
| Dil. Factor: | 2.26 | Date of Analysis: | 11/30/12 09:56 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | 0.24 |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SS1-111512

Lab ID#: 1211514C-17A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113011 | Date of Collection: | 11/15/12 2:35:00 PM |
| Dil. Factor: | 2.03 | Date of Analysis: | 11/30/12 10:06 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.10 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SS2-111512

Lab ID#: 1211514C-18A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113012 | Date of Collection: | 11/15/12 3:24:00 PM |
| Dil. Factor: | 2.31 | Date of Analysis: | 11/30/12 10:15 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.38 |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SS2-111512 Lab Duplicate

Lab ID#: 1211514C-18AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113013 | Date of Collection: | 11/15/12 3:24:00 PM |
| Dil. Factor: | 2.31 | Date of Analysis: | 11/30/12 10:24 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | 0.36 |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SS3-111512

Lab ID#: 1211514C-19A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113014 | Date of Collection: | 11/15/12 3:30:00 PM |
| Dil. Factor: | 2.57 | Date of Analysis: | 11/30/12 10:36 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.13 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SS4-111512

Lab ID#: 1211514C-20A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113015 | Date of Collection: | 11/15/12 4:22:00 PM |
| Dil. Factor: | 2.28 | Date of Analysis: | 11/30/12 10:43 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1211514C-21A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|-------------------|
| File Name: | 9113004 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/30/12 08:53 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.050 | Not Detected |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1211514C-22A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | |
|--------------|---------|-------------------------------------|
| File Name: | 9113003 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 08:41 AM |

| Compound | %Recovery |
|-----------------|------------------|
| Helium | 103 |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1211514C-22AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | |
|--------------|---------|-------------------------------------|
| File Name: | 9113026 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 12:34 PM |

| Compound | %Recovery |
|-----------------|------------------|
| Helium | 107 |

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Bendie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 suite 200 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | specify _____ | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

TRW
11/20/12

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|--------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-111512 | 23925 | 11/15/12 | 10:03 | TO-15 SIM ^{see notes} | -30 | -5 | | |
| 02A | 10-IA2-111512 | 32107 | 11/15/12 | 10:07 | | -30 | -4.5 | | |
| 03A | 10-CS1-111512 | 31432 | 11/15/12 | 10:14 | | -30 | -1.5 | | |
| 04A | 11-IA1-111512 | 34190 | 11/15/12 | 10:40 | | -30 | -5 | | |
| 05A | 11-IA2-111512 | 14010 | 11/15/12 | 10:42 | | -30 | -4 | | |
| 06A | 11-IA3-111512 | 5599 | 11/15/12 | 10:43 | | -29.5 | -4 | | |
| 07A | 13-IA1-111612 | 34241 | 11/16/12 | 09:39 | | -29 | -4 | | |
| 08A | 13-IA2-111612 | 5600 | 11/16/12 | 09:46 | | -30 | -5 | | |
| 09A | 24-IA1-111612 | 33925 | 11/16/12 | 11:49 | | -30 | 4.5 | | |
| 10A | 24-IA2-111612 | 34737 | 11/16/12 | 10:58 | | -28 | -4 | | |

| | | |
|---|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>TRW</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds. see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>FedEx TRW</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
| | <u>UPS 11/26/12</u> | | | | | |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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(916) 985-1000 FAX (916) 985-1020

Page 4 of 5

Project Manager Bill Bessie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Max Foster + Abingi Email taskton@maxfoster.com
 Address 2001 NW 14th Ave. Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 1-551-111512 | 94521 | 11/15/12 | 16:37 | TO-15 SIM | -28 | -4.5 | | |
| 12A | 1-552-111512 | 36569 | 11/15/12 | 17:10 | | -30 | -4.5 | | |
| 13A | 1-553-111512 | 9495 | 11/15/12 | 17:23 | | -30 | -4.5 | | |
| 14A | 7-551-111512 | 15748 | 11/15/12 | 13:10 | | -29 | -4.5 | | |
| 15A | 7-552-111512 | 35690 | 11/15/12 | 13:29 | | -28.5 | -4 | | |
| 16A | 7-553-111512 | 97105 | 11/15/12 | 14:07 | | -30 | -4.5 | | |
| 17A | 11-551-111512 | 9453 | 11/15/12 | 14:35 | | -29.5 | -4.5 | | |
| 18A | 11-552-111512 | 34609 | 11/15/12 | 15:24 | | -28 | -4.5 | | |
| 19A | 11-553-111512 | 9518 | 11/15/12 | 15:30 | | -29.5 | -4.5 | | |
| 20A | 11-554-111512 | 93109 | 11/15/12 | 16:22 | | -28.5 | -4.5 | | |

| | | |
|--|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>1300 11/20/12</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>1000 11/26/12</u> | Notes: TO-15 SIM for select compounds See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-8000

121151X

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/13/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211514DR1

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211514DR1

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/13/2012 | | |
| DATE REISSUED: | 01/13/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 10-IA1-111512 | Modified TO-15 SIM | 7.0 "Hg | 5 psi |
| 02A | 10-IA2-111512 | Modified TO-15 SIM | 5.0 "Hg | 5 psi |
| 03A | 10-CS1-111512 | Modified TO-15 SIM | 0.8 "Hg | 5 psi |
| 04A | 11-IA1-111512 | Modified TO-15 SIM | 4.8 "Hg | 5 psi |
| 05A | 11-IA2-111512 | Modified TO-15 SIM | 3.6 "Hg | 5 psi |
| 06A | 11-IA3-111512 | Modified TO-15 SIM | 3.6 "Hg | 5 psi |
| 07A | 13-IA1-111612 | Modified TO-15 SIM | 4.2 "Hg | 5 psi |
| 08A | 13-IA2-111612 | Modified TO-15 SIM | 4.8 "Hg | 5 psi |
| 09A | 24-IA1-111612 | Modified TO-15 SIM | 3.8 "Hg | 5 psi |
| 10A | 24-IA2-111612 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 11A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 12A | CCV | Modified TO-15 SIM | NA | NA |
| 13A | LCS | Modified TO-15 SIM | NA | NA |
| 13AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 01/13/13

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1211514DR1

Ten 6 Liter Summa Canister (SIM Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211514A on 12-13-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

THE WORK ORDER WAS RE-ISSUED ON 1/13/13 TO INCLUDE THE MDL VALUES IN THE FINAL REPORT.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 10-IA1-111512 | Date/Time Analyzed: | 12/5/12 08:53 AM |
| Lab ID: | 1211514DR1-01A | Dilution Factor: | 1.75 |
| Date/Time Collecte | 11/15/12 10:03 AM | Instrument/Filename: | msda.i / a120419simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0076 | 0.035 | 0.14 | 0.33 |
| Trichloroethene | 79-01-6 | 0.026 | 0.047 | 0.19 | 0.030 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 116 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 10-IA2-111512 | Date/Time Analyzed: | 12/5/12 09:30 AM |
| Lab ID: | 1211514DR1-02A | Dilution Factor: | 1.61 |
| Date/Time Collecte | 11/15/12 10:07 AM | Instrument/Filename: | msda.i / a120420simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0070 | 0.032 | 0.13 | 0.44 |
| Trichloroethene | 79-01-6 | 0.024 | 0.043 | 0.17 | 0.026 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 117 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 10-CS1-111512 | Date/Time Analyzed: | 12/5/12 10:06 AM |
| Lab ID: | 1211514DR1-03A | Dilution Factor: | 1.38 |
| Date/Time Collecte | 11/15/12 10:14 AM | Instrument/Filename: | msda.i / a120421simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0060 | 0.028 | 0.11 | 0.063 J |
| Trichloroethene | 79-01-6 | 0.021 | 0.037 | 0.15 | 0.035 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 11-IA1-111512 | Date/Time Analyzed: | 12/5/12 10:42 AM |
| Lab ID: | 1211514DR1-04A | Dilution Factor: | 1.60 |
| Date/Time Collecte | 11/15/12 10:40 AM | Instrument/Filename: | msda.i / a120422simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0070 | 0.032 | 0.13 | 0.22 |
| Trichloroethene | 79-01-6 | 0.024 | 0.043 | 0.17 | 0.043 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 11-IA2-111512 | Date/Time Analyzed: | 12/5/12 11:21 AM |
| Lab ID: | 1211514DR1-05A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/15/12 10:42 AM | Instrument/Filename: | msda.i / a120423simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0066 | 0.031 | 0.12 | 0.20 |
| Trichloroethene | 79-01-6 | 0.023 | 0.041 | 0.16 | 0.051 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 113 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 11-IA3-111512 | Date/Time Analyzed: | 12/5/12 12:12 PM |
| Lab ID: | 1211514DR1-06A | Dilution Factor: | 1.52 |
| Date/Time Collecte | 11/15/12 10:43 AM | Instrument/Filename: | msda.i / a120424simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0066 | 0.031 | 0.12 | 0.19 |
| Trichloroethene | 79-01-6 | 0.023 | 0.041 | 0.16 | 0.035 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 119 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 13-IA1-111612 | Date/Time Analyzed: | 12/5/12 12:48 PM |
| Lab ID: | 1211514DR1-07A | Dilution Factor: | 1.56 |
| Date/Time Collecte | 11/16/12 09:39 AM | Instrument/Filename: | msda.i / a120425simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.032 | 0.13 | 0.48 |
| Trichloroethene | 79-01-6 | 0.023 | 0.042 | 0.17 | 0.030 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 115 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 92 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 13-IA2-111612 | Date/Time Analyzed: | 12/5/12 01:24 PM |
| Lab ID: | 1211514DR1-08A | Dilution Factor: | 1.60 |
| Date/Time Collecte | 11/16/12 09:46 AM | Instrument/Filename: | msda.i / a120426simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0070 | 0.032 | 0.13 | 0.67 |
| Trichloroethene | 79-01-6 | 0.024 | 0.043 | 0.17 | 0.095 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 116 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 95 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 24-IA1-111612 | Date/Time Analyzed: | 12/5/12 02:00 PM |
| Lab ID: | 1211514DR1-09A | Dilution Factor: | 1.53 |
| Date/Time Collecte | 11/16/12 11:49 AM | Instrument/Filename: | msda.i / a120427simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0067 | 0.031 | 0.12 | 0.080 J |
| Trichloroethene | 79-01-6 | 0.023 | 0.041 | 0.16 | 0.068 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 118 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|----------------------|
| Client ID: | 24-IA2-111612 | Date/Time Analyzed: | 12/5/12 02:36 PM |
| Lab ID: | 1211514DR1-10A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 11/16/12 10:58 AM | Instrument/Filename: | msda.i / a120428simD |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0068 | 0.031 | 0.12 | 0.080 J |
| Trichloroethene | 79-01-6 | 0.023 | 0.042 | 0.17 | 0.029 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 119 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 12/4/12 10:19 PM |
| Lab ID: | 1211514DR1-11A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120416simE |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.0044 | 0.020 | 0.081 | Not Detected |
| Trichloroethene | 79-01-6 | 0.015 | 0.027 | 0.11 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 118 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 12/4/12 06:01 PM |
| Lab ID: | 1211514DR1-12A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120412sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 125 |
| Trichloroethene | 79-01-6 | 101 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 12/4/12 06:51 PM |
| Lab ID: | 1211514DR1-13A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120413sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 120 |
| Trichloroethene | 79-01-6 | 95 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 121 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 106 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 12/4/12 07:46 PM |
| Lab ID: | 1211514DR1-13AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msda.i / a120414sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 116 |
| Trichloroethene | 79-01-6 | 96 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 122 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 110 |

* % Recovery is calculated using unrounded analytical results.

Air TOXICS LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 3 of 5

Project Manager Bill Beaudie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 201 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 suite 200 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-111512 | 23925 | 11/15/12 | 10:03 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 02A | 10-IA2-111512 | 32107 | 11/15/12 | 10:07 | | -30 | -4.5 | | |
| 03A | 10-CA1-111512 | 31432 | 11/15/12 | 10:14 | | -30 | -1.5 | | |
| 04A | 11-IA1-111512 | 34190 | 11/15/12 | 10:40 | | -30 | -5 | | |
| 05A | 11-IA2-111512 | 14010 | 11/15/12 | 10:42 | | -30 | -4 | | |
| 06A | 11-IA3-111512 | 5599 | 11/15/12 | 10:43 | | -29.5 | -4 | | |
| 07A | 13-IA1-111612 | 34241 | 11/16/12 | 09:39 | | -29 | -4 | | |
| 08A | 13-IA2-111612 | 5600 | 11/16/12 | 09:46 | | -30 | -5 | | |
| 09A | 24-IA1-111612 | 33925 | 11/16/12 | 11:49 | | -30 | 4.5 | | |
| 10A | 24-IA2-111612 | 34737 | 11/16/12 | 10:58 | | -28 | -4 | | |

| | | |
|---|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds. see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|----------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>FedEx</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
| | <u>UPS</u> <u>11/26/12</u> | | | | | |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Barchia / Meredith DiAndrea
 Collected by: (Print and Sign) Thomas Achten
 Company Max Foster + Abongi Email taskforce@maxfoster.com
 Address 2001 NW 14th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 ^{Suite 200} Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | specify | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 1-SS1-111512 | 94521 | 11/15/12 | 16:37 | TO-15 SEM | -28 | -4.5 | | |
| 12A | 1-SS2-111512 | 36569 | 11/15/12 | 17:10 | | -30 | -4.5 | | |
| 13A | 1-SS3-111512 | 9495 | 11/15/12 | 17:23 | | -30 | -4.5 | | |
| 14A | 7-SS1-111512 | 15748 | 11/15/12 | 13:10 | | -29 | -4.5 | | |
| 15A | 7-SS2-111512 | 35690 | 11/15/12 | 13:29 | | -28.5 | -4 | | |
| 16A | 7-SS3-111512 | 97105 | 11/15/12 | 14:07 | | -30 | -4.5 | | |
| 17A | 11-SS1-111512 | 9453 | 11/15/12 | 14:35 | | -29.5 | -4.5 | | |
| 18A | 11-SS2-111512 | 34609 | 11/15/12 | 15:24 | | -28 | -4.5 | | |
| 19A | 11-SS3-111512 | 9518 | 11/15/12 | 15:30 | | -29.5 | -4.5 | | |
| 20A | 11-SS4-111512 | 93109 | 11/15/12 | 16:22 | | -28.5 | -4.5 | | |

TOP 11/20/12

| | | |
|--|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>1300 11/20/12</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>1000</u> | Notes: TO-15 SEM for select compounds. See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

1211514

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action, Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/14/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211514ER2

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211514ER2

Work Order Summary

CLIENT: Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland, OR 97209

BILL TO: Accounts Payable
Maul Foster and Alongi Inc.
400 E. Mill Plain Blvd
Suite 400
Vancouver, WA 98660

PHONE: 971-544-2139

P.O. #

FAX: 971-544-2140

PROJECT # 8006.31.01-05 Park Laundry

DATE RECEIVED: 11/26/2012

CONTACT: Kelly Buettner

DATE COMPLETED: 12/13/2012

DATE REISSUED: 01/14/2013

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|----------------|-------------------------------|---------------------------|
| 11A | 1-SS1-111512 | Modified TO-15 | 3.4 "Hg | 15 psi |
| 12A | 1-SS2-111512 | Modified TO-15 | 2.6 "Hg | 15 psi |
| 13A | 1-SS3-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 14A | 7-SS1-111512 | Modified TO-15 | 3.8 "Hg | 15 psi |
| 15A | 7-SS2-111512 | Modified TO-15 | 4.8 "Hg | 15 psi |
| 16A | 7-SS3-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 17A | 11-SS1-111512 | Modified TO-15 | 0.2 "Hg | 15 psi |
| 18A | 11-SS2-111512 | Modified TO-15 | 3.8 "Hg | 15 psi |
| 19A | 11-SS3-111512 | Modified TO-15 | 6.4 "Hg | 15 psi |
| 20A | 11-SS4-111512 | Modified TO-15 | 3.4 "Hg | 15 psi |
| 21A | Lab Blank | Modified TO-15 | NA | NA |
| 22A | CCV | Modified TO-15 | NA | NA |
| 23A | LCS | Modified TO-15 | NA | NA |
| 23AA | LCS D | Modified TO-15 | NA | NA |

CERTIFIED BY: 

DATE: 01/14/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15
Maul Foster and Alongi Inc.
Workorder# 1211514ER2

Ten 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|---------------------|--|--|
| Initial Calibration | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | $\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD |
| Blank and standards | Zero Air | UHP Nitrogen provides a higher purity gas matrix than zero air |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples 11-SS2-111512, 11-SS3-111512, and 11-SS4-111512 due to the presence of high level non-target species.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211514B on 12-13-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

THE WORK ORDER WAS RE-ISSUED ON 1/14/13 TO INCLUDE THE MDL VALUES IN THE FINAL REPORT.

THE WORK ORDER WAS REISSUED ON 1/14/13 TO APPLY THE REPORTING LIMITS AND ASSOCIATED RESULTS GENERATED FROM THE FULL SCAN TO-15 DATA FILE CONSISTENT WITH WORKORDER 1211515A, RATHER THAN THE LOWER SIM REPORTING LIMITS AND RESULTS GENERATED FROM THE TO-15 SIM DATA FILE. CHANGING THE REPORTING LIMITS FROM SIM TO FULL SCAN CAUSED SOME

PREVIOUSLY REPORTED COMPOUNDS TO BE BELOW THE REPORTING LIMIT AND WERE THEREFORE REPORTED AS "NOT DETECTED".

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 1-SS1-111512 | Date/Time Analyzed: | 11/30/12 02:10 PM |
| Lab ID: | 1211514ER2-11A | Dilution Factor: | 2.28 |
| Date/Time Collecte | 11/15/12 04:37 PM | Instrument/Filename: | msdv.i / v113010er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.075 | 0.46 | 0.92 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.61 | 1.2 | 0.29 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 97 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 1-SS2-111512 | Date/Time Analyzed: | 11/30/12 03:04 PM |
| Lab ID: | 1211514ER2-12A | Dilution Factor: | 2.21 |
| Date/Time Collecte | 11/15/12 05:10 PM | Instrument/Filename: | msdv.i / v113011er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.073 | 0.45 | 0.89 | Not Detected |
| Trichloroethene | 79-01-6 | 0.18 | 0.59 | 1.2 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 1-SS3-111512 | Date/Time Analyzed: | 11/30/12 04:25 PM |
| Lab ID: | 1211514ER2-13A | Dilution Factor: | 2.26 |
| Date/Time Collecte | 11/15/12 05:23 PM | Instrument/Filename: | msdv.i / v113012er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.074 | 0.46 | 0.91 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.61 | 1.2 | 0.35 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 101 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 7-SS1-111512 | Date/Time Analyzed: | 11/30/12 05:02 PM |
| Lab ID: | 1211514ER2-14A | Dilution Factor: | 2.31 |
| Date/Time Collecte | 11/15/12 01:10 PM | Instrument/Filename: | msdv.i / v113013er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.076 | 0.47 | 0.93 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.62 | 1.2 | 0.31 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 7-SS2-111512 | Date/Time Analyzed: | 11/30/12 05:52 PM |
| Lab ID: | 1211514ER2-15A | Dilution Factor: | 2.40 |
| Date/Time Collecte | 11/15/12 01:29 PM | Instrument/Filename: | msdv.i / v113014er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.079 | 0.48 | 0.97 | Not Detected |
| Trichloroethene | 79-01-6 | 0.20 | 0.64 | 1.3 | 0.36 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 7-SS3-111512 | Date/Time Analyzed: | 11/30/12 06:43 PM |
| Lab ID: | 1211514ER2-16A | Dilution Factor: | 2.26 |
| Date/Time Collecte | 11/15/12 02:07 PM | Instrument/Filename: | msdv.i / v113015er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.074 | 0.46 | 0.91 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.61 | 1.2 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 99 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SS1-111512 | Date/Time Analyzed: | 11/30/12 07:19 PM |
| Lab ID: | 1211514ER2-17A | Dilution Factor: | 2.03 |
| Date/Time Collecte | 11/15/12 02:35 PM | Instrument/Filename: | msdv.i / v113016er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.067 | 0.41 | 0.82 | 0.22 J |
| Trichloroethene | 79-01-6 | 0.17 | 0.54 | 1.1 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SS2-111512 | Date/Time Analyzed: | 11/30/12 08:55 PM |
| Lab ID: | 1211514ER2-18A | Dilution Factor: | 4.62 |
| Date/Time Collecte | 11/15/12 03:24 PM | Instrument/Filename: | msdv.i / v113017er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.15 | 0.93 | 1.9 | 0.72 J |
| Trichloroethene | 79-01-6 | 0.38 | 1.2 | 2.5 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 103 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 107 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SS3-111512 | Date/Time Analyzed: | 11/30/12 09:31 PM |
| Lab ID: | 1211514ER2-19A | Dilution Factor: | 5.14 |
| Date/Time Collecte | 11/15/12 03:30 PM | Instrument/Filename: | msdv.i / v113018er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.17 | 1.0 | 2.1 | Not Detected |
| Trichloroethene | 79-01-6 | 0.42 | 1.4 | 2.8 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 101 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SS4-111512 | Date/Time Analyzed: | 11/30/12 10:17 PM |
| Lab ID: | 1211514ER2-20A | Dilution Factor: | 7.12 |
| Date/Time Collecte | 11/15/12 04:22 PM | Instrument/Filename: | msdv.i / v113019er1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.23 | 1.4 | 2.9 | Not Detected |
| Trichloroethene | 79-01-6 | 0.59 | 1.9 | 3.8 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 11/30/12 01:08 PM |
| Lab ID: | 1211514ER2-21A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v113009er1 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.033 | 0.20 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.082 | 0.27 | 0.54 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 98 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | CCV | Date/Time Analyzed: | 11/30/12 09:02 AM |
| Lab ID: | 1211514ER2-22A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v113004 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 110 |
| Trichloroethene | 79-01-6 | 98 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | LCS | Date/Time Analyzed: | 11/30/12 09:49 AM |
| Lab ID: | 1211514ER2-23A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v113005 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Trichloroethene | 79-01-6 | 92 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 97 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 11/30/12 10:32 AM |
| Lab ID: | 1211514ER2-23AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v113006 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 102 |
| Trichloroethene | 79-01-6 | 91 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

* % Recovery is calculated using unrounded analytical results.

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CHAIN-OF-CUSTODY RECORD

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Page 3 of 5

Project Manager Bill Bendie / Meredith D. Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 suite 200 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

TRW
11/20/12

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-111512 | 23925 | 11/15/12 | 10:03 | TO-15 SIM <small>see notes</small> | -30 | -5 | | |
| 02A | 10-IA2-111512 | 32107 | 11/15/12 | 10:07 | | -30 | -4.5 | | |
| 03A | 10-CS1-111512 | 31432 | 11/15/12 | 10:14 | | -30 | -1.5 | | |
| 04A | 11-IA1-111512 | 34190 | 11/15/12 | 10:40 | | -30 | -5 | | |
| 05A | 11-IA2-111512 | 14010 | 11/15/12 | 10:42 | | -30 | -4 | | |
| 06A | 11-IA3-111512 | 5599 | 11/15/12 | 10:43 | | -29.5 | -4 | | |
| 07A | 13-IA1-111612 | 34241 | 11/16/12 | 09:39 | | -29 | -4 | | |
| 08A | 13-IA2-111612 | 5600 | 11/16/12 | 09:46 | | -30 | -5 | | |
| 09A | 24-IA1-111612 | 33925 | 11/16/12 | 11:49 | | -30 | 4.5 | | |
| 10A | 24-IA2-111612 | 34737 | 11/16/12 | 10:58 | | -28 | -4 | | |

| | | |
|---|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>TRW</u> Date/Time <u>11/26/12 1000</u> | Notes: TO-15 SIM for select compounds. see attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>Fedex TRW</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
| | <u>UPS 11/26/12</u> | | | | | |



CHAIN-OF-CUSTODY RECORD

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Page 4 of 5

Project Manager Bill Bessie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Max Foster + Abingi Email taskton@maxfoster.com
 Address 2001 NW 14th Ave. Suite 200 City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01-05</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 11A | 1-551-111512 | 94521 | 11/15/12 | 16:37 | TO-15 SIM | -28 | -4.5 | | |
| 12A | 1-552-111512 | 36569 | 11/15/12 | 17:10 | | -30 | -4.5 | | |
| 13A | 1-553-111512 | 9495 | 11/15/12 | 17:23 | | -30 | -4.5 | | |
| 14A | 7-551-111512 | 15748 | 11/15/12 | 13:10 | | -29 | -4.5 | | |
| 15A | 7-552-111512 | 35690 | 11/15/12 | 13:29 | | -28.5 | -4 | | |
| 16A | 7-553-111512 | 97105 | 11/15/12 | 14:07 | | -30 | -4.5 | | |
| 17A | 11-551-111512 | 9453 | 11/15/12 | 14:35 | | -29.5 | -4.5 | | |
| 18A | 11-552-111512 | 34609 | 11/15/12 | 15:24 | | -28 | -4.5 | | |
| 19A | 11-553-111512 | 9518 | 11/15/12 | 15:30 | | -29.5 | -4.5 | | |
| 20A | 11-554-111512 | 93109 | 11/15/12 | 16:22 | | -28.5 | -4.5 | | |

| | | |
|--|--|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>1300 11/20/12</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>1000 11/26/12</u> | Notes: TO-15 SIM for select compounds See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211514</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 704-8000

121151X

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey© database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/13/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211515A

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211515A

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01-05 Park Laundry |
| DATE RECEIVED: | 11/26/2012 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 12/13/2012 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|----------------|-------------------------------|---------------------------|
| 01A | 13-SS1-111612 | Modified TO-15 | 2.0 "Hg | 15 psi |
| 02A | 1-SG1-111512 | Modified TO-15 | 2.2 "Hg | 15 psi |
| 03A | 5-SG1-111512 | Modified TO-15 | 3.6 "Hg | 15 psi |
| 04A | 11-SG1-111612 | Modified TO-15 | 3.6 "Hg | 15 psi |
| 05A | 13-SG1-111512 | Modified TO-15 | 5.8 "Hg | 15 psi |
| 06A | 24-SG1-111512 | Modified TO-15 | 5.2 "Hg | 15 psi |
| 07A | 27-SG1-111512 | Modified TO-15 | 2.2 "Hg | 15 psi |
| 08A | 45-SG1-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 09A | 46-SG1-111512 | Modified TO-15 | 1.8 "Hg | 15 psi |
| 10A | Lab Blank | Modified TO-15 | NA | NA |
| 11A | CCV | Modified TO-15 | NA | NA |
| 12A | LCS | Modified TO-15 | NA | NA |
| 12AA | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 12/13/12

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15
Maul Foster and Alongi Inc.
Workorder# 1211515A

Nine 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|---------------------|--|--|
| Initial Calibration | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | $\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD |
| Blank and standards | Zero Air | UHP Nitrogen provides a higher purity gas matrix than zero air |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample 45-SG1-111512 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV and/or LCS.

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: 13-SS1-111612

Lab ID#: 1211515A-01A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|-------------------|---------------|--------------------|----------------|
| Tetrachloroethene | 0.22 | 0.29 | 1.5 | 1.9 |

Client Sample ID: 1-SG1-111512

Lab ID#: 1211515A-02A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|-------------------|---------------|--------------------|----------------|
| Tetrachloroethene | 0.22 | 2.3 | 1.5 | 16 |

Client Sample ID: 5-SG1-111512

Lab ID#: 1211515A-03A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|-------------------|---------------|--------------------|----------------|
| Tetrachloroethene | 0.23 | 14 | 1.6 | 92 |

Client Sample ID: 11-SG1-111612

Lab ID#: 1211515A-04A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.23 | 1.8 | 0.59 | 4.7 |
| cis-1,2-Dichloroethene | 0.23 | 0.83 | 0.91 | 3.3 |
| Trichloroethene | 0.23 | 0.87 | 1.2 | 4.7 |

Client Sample ID: 13-SG1-111512

Lab ID#: 1211515A-05A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|-------------------|---------------|--------------------|----------------|
| Tetrachloroethene | 0.25 | 3.8 | 1.7 | 26 |

Client Sample ID: 24-SG1-111512

Lab ID#: 1211515A-06A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|----------|-------------------|---------------|--------------------|----------------|
|----------|-------------------|---------------|--------------------|----------------|

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

Client Sample ID: 24-SG1-111512

Lab ID#: 1211515A-06A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Tetrachloroethene | 0.24 | 0.39 | 1.6 | 2.6 |

Client Sample ID: 27-SG1-111512

Lab ID#: 1211515A-07A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Tetrachloroethene | 0.22 | 0.87 | 1.5 | 5.9 |

Client Sample ID: 45-SG1-111512

Lab ID#: 1211515A-08A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Tetrachloroethene | 1.1 | 420 | 7.7 | 2800 |

Client Sample ID: 46-SG1-111512

Lab ID#: 1211515A-09A

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|-------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Tetrachloroethene | 0.22 | 8.3 | 1.4 | 56 |



Client Sample ID: 13-SS1-111612

Lab ID#: 1211515A-01A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120308 | Date of Collection: | 11/16/12 9:49:00 AM |
| Dil. Factor: | 2.16 | Date of Analysis: | 12/3/12 02:36 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.22 | Not Detected | 0.55 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.87 | Not Detected |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.87 | Not Detected |
| Trichloroethene | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 0.29 | 1.5 | 1.9 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |



Client Sample ID: 1-SG1-111512

Lab ID#: 1211515A-02A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120309 | Date of Collection: | 11/15/12 8:35:00 AM |
| Dil. Factor: | 2.18 | Date of Analysis: | 12/3/12 03:12 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.22 | Not Detected | 0.56 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.88 | Not Detected |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.88 | Not Detected |
| Trichloroethene | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 2.3 | 1.5 | 16 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 112 | 70-130 |



Air Toxics

Client Sample ID: 5-SG1-111512

Lab ID#: 1211515A-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|--|
| File Name: | v120310 | Date of Collection: 11/15/12 10:17:00 A |
| Dil. Factor: | 2.30 | Date of Analysis: 12/3/12 03:49 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.23 | Not Detected | 0.59 | Not Detected |
| Chloroethane | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.91 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.91 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.93 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | Not Detected | 0.91 | Not Detected |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.93 | Not Detected |
| Trichloroethene | 0.23 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.23 | 14 | 1.6 | 92 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |



Client Sample ID: 11-SG1-111612

Lab ID#: 1211515A-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120311 | Date of Collection: | 11/16/12 7:26:00 AM |
| Dil. Factor: | 2.30 | Date of Analysis: | 12/3/12 04:31 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.23 | 1.8 | 0.59 | 4.7 |
| Chloroethane | 1.2 | Not Detected | 3.0 | Not Detected |
| 1,1-Dichloroethene | 0.23 | Not Detected | 0.91 | Not Detected |
| trans-1,2-Dichloroethene | 0.23 | Not Detected | 0.91 | Not Detected |
| 1,1-Dichloroethane | 0.23 | Not Detected | 0.93 | Not Detected |
| cis-1,2-Dichloroethene | 0.23 | 0.83 | 0.91 | 3.3 |
| 1,2-Dichloroethane | 0.23 | Not Detected | 0.93 | Not Detected |
| Trichloroethene | 0.23 | 0.87 | 1.2 | 4.7 |
| Tetrachloroethene | 0.23 | Not Detected | 1.6 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |



Client Sample ID: 13-SG1-111512

Lab ID#: 1211515A-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120312 | Date of Collection: | 11/15/12 11:34:00 A |
| Dil. Factor: | 2.50 | Date of Analysis: | 12/3/12 05:27 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.25 | Not Detected | 0.64 | Not Detected |
| Chloroethane | 1.2 | Not Detected | 3.3 | Not Detected |
| 1,1-Dichloroethene | 0.25 | Not Detected | 0.99 | Not Detected |
| trans-1,2-Dichloroethene | 0.25 | Not Detected | 0.99 | Not Detected |
| 1,1-Dichloroethane | 0.25 | Not Detected | 1.0 | Not Detected |
| cis-1,2-Dichloroethene | 0.25 | Not Detected | 0.99 | Not Detected |
| 1,2-Dichloroethane | 0.25 | Not Detected | 1.0 | Not Detected |
| Trichloroethene | 0.25 | Not Detected | 1.3 | Not Detected |
| Tetrachloroethene | 0.25 | 3.8 | 1.7 | 26 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |



Air Toxics

Client Sample ID: 24-SG1-111512

Lab ID#: 1211515A-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120313 | Date of Collection: | 11/15/12 12:35:00 P |
| Dil. Factor: | 2.44 | Date of Analysis: | 12/3/12 06:20 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.24 | Not Detected | 0.62 | Not Detected |
| Chloroethane | 1.2 | Not Detected | 3.2 | Not Detected |
| 1,1-Dichloroethene | 0.24 | Not Detected | 0.97 | Not Detected |
| trans-1,2-Dichloroethene | 0.24 | Not Detected | 0.97 | Not Detected |
| 1,1-Dichloroethane | 0.24 | Not Detected | 0.99 | Not Detected |
| cis-1,2-Dichloroethene | 0.24 | Not Detected | 0.97 | Not Detected |
| 1,2-Dichloroethane | 0.24 | Not Detected | 0.99 | Not Detected |
| Trichloroethene | 0.24 | Not Detected | 1.3 | Not Detected |
| Tetrachloroethene | 0.24 | 0.39 | 1.6 | 2.6 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |



Air Toxics

Client Sample ID: 27-SG1-111512

Lab ID#: 1211515A-07A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | | |
|---------------------|----------------|----------------------------|----------------------------|--|
| File Name: | v120314 | Date of Collection: | 11/15/12 11:38:00 A | |
| Dil. Factor: | 2.18 | Date of Analysis: | 12/3/12 07:21 PM | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.22 | Not Detected | 0.56 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 2.9 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.88 | Not Detected |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.86 | Not Detected |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.88 | Not Detected |
| Trichloroethene | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 0.87 | 1.5 | 5.9 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 97 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |



Air Toxics

Client Sample ID: 45-SG1-111512

Lab ID#: 1211515A-08A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | v120317 | Date of Collection: | 11/15/12 9:10:00 AM |
| Dil. Factor: | 11.3 | Date of Analysis: | 12/3/12 10:46 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 1.1 | Not Detected | 2.9 | Not Detected |
| Chloroethane | 5.6 | Not Detected | 15 | Not Detected |
| 1,1-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| trans-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| 1,1-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected |
| cis-1,2-Dichloroethene | 1.1 | Not Detected | 4.5 | Not Detected |
| 1,2-Dichloroethane | 1.1 | Not Detected | 4.6 | Not Detected |
| Trichloroethene | 1.1 | Not Detected | 6.1 | Not Detected |
| Tetrachloroethene | 1.1 | 420 | 7.7 | 2800 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |



Air Toxics

Client Sample ID: 46-SG1-111512

Lab ID#: 1211515A-09A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|---------|--|
| File Name: | v120318 | Date of Collection: 11/15/12 10:20:00 A |
| Dil. Factor: | 2.15 | Date of Analysis: 12/4/12 07:10 AM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|-------------------|---------------|--------------------|----------------|
| Vinyl Chloride | 0.22 | Not Detected | 0.55 | Not Detected |
| Chloroethane | 1.1 | Not Detected | 2.8 | Not Detected |
| 1,1-Dichloroethene | 0.22 | Not Detected | 0.85 | Not Detected |
| trans-1,2-Dichloroethene | 0.22 | Not Detected | 0.85 | Not Detected |
| 1,1-Dichloroethane | 0.22 | Not Detected | 0.87 | Not Detected |
| cis-1,2-Dichloroethene | 0.22 | Not Detected | 0.85 | Not Detected |
| 1,2-Dichloroethane | 0.22 | Not Detected | 0.87 | Not Detected |
| Trichloroethene | 0.22 | Not Detected | 1.2 | Not Detected |
| Tetrachloroethene | 0.22 | 8.3 | 1.4 | 56 |

Container Type: 1 Liter Summa Canister (100% Certified)

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Client Sample ID: Lab Blank

Lab ID#: 1211515A-10A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|---|
| File Name: | v120306 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/3/12 01:04 PM |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|--------------------------|----------------------|---------------------------|-----------------------|
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |



Air Toxics

Client Sample ID: CCV

Lab ID#: 1211515A-11A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v120302 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/3/12 09:45 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 93 |
| Chloroethane | 96 |
| 1,1-Dichloroethene | 100 |
| trans-1,2-Dichloroethene | 100 |
| 1,1-Dichloroethane | 100 |
| cis-1,2-Dichloroethene | 98 |
| 1,2-Dichloroethane | 110 |
| Trichloroethene | 96 |
| Tetrachloroethene | 103 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 114 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Client Sample ID: LCS

Lab ID#: 1211515A-12A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|--------------|---------|------------------------------------|
| File Name: | v120303 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/3/12 10:49 AM |

| Compound | %Recovery |
|--------------------------|-----------|
| Vinyl Chloride | 93 |
| Chloroethane | 92 |
| 1,1-Dichloroethene | 103 |
| trans-1,2-Dichloroethene | 109 |
| 1,1-Dichloroethane | 98 |
| cis-1,2-Dichloroethene | 95 |
| 1,2-Dichloroethane | 117 |
| Trichloroethene | 93 |
| Tetrachloroethene | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|-----------|---------------|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Client Sample ID: LCSD

Lab ID#: 1211515A-12AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

| | | |
|---------------------|----------------|---|
| File Name: | v120304 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 12/3/12 11:25 AM |

| Compound | %Recovery |
|--------------------------|------------------|
| Vinyl Chloride | 91 |
| Chloroethane | 89 |
| 1,1-Dichloroethene | 101 |
| trans-1,2-Dichloroethene | 105 |
| 1,1-Dichloroethane | 96 |
| cis-1,2-Dichloroethene | 93 |
| 1,2-Dichloroethane | 106 |
| Trichloroethene | 93 |
| Tetrachloroethene | 102 |

Container Type: NA - Not Applicable

| Surrogates | %Recovery | Method Limits |
|-----------------------|------------------|----------------------|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Maul Foster & Alangi Email tashton@maul-foster.com
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|---|--|--|
| Project Info: P.O. # _____ Project # <u>8026 31.01-05</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Lab Use Only Pressurized by: Date: Pressurization Gas: N ₂ He |
| | specify _____ | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 13-561-111612 | 9483 | 11/16/12 | 09:44 | TD-15 SIM | -29 | -2.5 | | |
| 02A | 1-561-111512 | 36476 | 11/15/12 | 08:35 | | -30 | -4.3 | | |
| 03A | 5-561-111512 | 33727 | 11/15/12 | 10:17 | | -28 | -4.5 | | |
| 04A | 11-561-111612 | 12040 | 11/16/12 | 07:26 | | -29 | -4.5 | | |
| 05A | 13-561-111512 | 30818 | 11/15/12 | 11:34 | | -27 | -4 | | |
| 06A | 24-561-111512 | 97101 | 11/15/12 | 12:35 | | -28 | -4 | | |
| 07A | 27-561-111512 | 36414 | 11/15/12 | 11:38 | | -30 | -4 | | |
| 08A | 45-561-111512 | 37750 | 11/15/12 | 09:10 | | -30 | -4.4 | | |
| 09A | 46-561-111512 | 37749 | 11/15/12 | 10:20 | | -30 | -3.5 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 TD-15 SIM for select compounds.
 See attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211515</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

1211575

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

**Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)**

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey® database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

12/5/2012

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211515B

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211515B

Work Order Summary

CLIENT: Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland, OR 97209

BILL TO: Accounts Payable
Maul Foster and Alongi Inc.
400 E. Mill Plain Blvd
Suite 400
Vancouver, WA 98660

PHONE: 971-544-2139

P.O. #

FAX: 971-544-2140

PROJECT # 8006.31.01-05 Park Laundry

DATE RECEIVED: 11/26/2012

CONTACT: Kelly Buettner

DATE COMPLETED: 12/05/2012

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-----------------------------|----------------------|-------------------------------|---------------------------|
| 01A | 13-SS1-111612 | Modified ASTM D-1946 | 2.0 "Hg | 15 psi |
| 02A | 1-SG1-111512 | Modified ASTM D-1946 | 2.2 "Hg | 15 psi |
| 03A | 5-SG1-111512 | Modified ASTM D-1946 | 3.6 "Hg | 15 psi |
| 04A | 11-SG1-111612 | Modified ASTM D-1946 | 3.6 "Hg | 15 psi |
| 05A | 13-SG1-111512 | Modified ASTM D-1946 | 5.8 "Hg | 15 psi |
| 06A | 24-SG1-111512 | Modified ASTM D-1946 | 5.2 "Hg | 15 psi |
| 07A | 27-SG1-111512 | Modified ASTM D-1946 | 2.2 "Hg | 15 psi |
| 08A | 45-SG1-111512 | Modified ASTM D-1946 | 3.2 "Hg | 15 psi |
| 09A | 46-SG1-111512 | Modified ASTM D-1946 | 1.8 "Hg | 15 psi |
| 09AA | 46-SG1-111512 Lab Duplicate | Modified ASTM D-1946 | 1.8 "Hg | 15 psi |
| 10A | Lab Blank | Modified ASTM D-1946 | NA | NA |
| 11A | LCS | Modified ASTM D-1946 | NA | NA |
| 11AA | LCSD | Modified ASTM D-1946 | NA | NA |

CERTIFIED BY: 

DATE: 12/05/12

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2011, Expiration date: 10/17/2012.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
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LABORATORY NARRATIVE
Modified ASTM D-1946
Maul Foster and Alongi Inc.
Workorder# 1211515B

Nine 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via Modified ASTM Method D-1946 for Helium in air using GC/TCD. The method involves direct injection of 1.0 mL of sample.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>ASTM D-1946</i> | <i>ATL Modifications</i> |
|-------------------------|--|--|
| Calibration | A single point calibration is performed using a reference standard closely matching the composition of the unknown. | A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples. |
| Reference Standard | The composition of any reference standard must be known to within 0.01 mol % for any component. | The standards used by ATL are blended to a $\geq 95\%$ accuracy. |
| Sample Injection Volume | Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL. | The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum. |
| Normalization | Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%. | Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix. |
| Precision | Precision requirements established at each concentration level. | Duplicates should agree within 25% RPD for detections $> 5 X$'s the RL. |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

B - Compound present in laboratory blank greater than reporting limit.

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the detection limit.

M - Reported value may be biased due to apparent matrix interferences.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Summary of Detected Compounds NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: 13-SS1-111612

Lab ID#: 1211515B-01A

No Detections Were Found.

Client Sample ID: 1-SG1-111512

Lab ID#: 1211515B-02A

No Detections Were Found.

Client Sample ID: 5-SG1-111512

Lab ID#: 1211515B-03A

No Detections Were Found.

Client Sample ID: 11-SG1-111612

Lab ID#: 1211515B-04A

No Detections Were Found.

Client Sample ID: 13-SG1-111512

Lab ID#: 1211515B-05A

No Detections Were Found.

Client Sample ID: 24-SG1-111512

Lab ID#: 1211515B-06A

No Detections Were Found.

Client Sample ID: 27-SG1-111512

Lab ID#: 1211515B-07A

No Detections Were Found.

Client Sample ID: 45-SG1-111512

Lab ID#: 1211515B-08A

No Detections Were Found.

Client Sample ID: 46-SG1-111512

Lab ID#: 1211515B-09A

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: 46-SG1-111512

Lab ID#: 1211515B-09A

No Detections Were Found.

Client Sample ID: 46-SG1-111512 Lab Duplicate

Lab ID#: 1211515B-09AA

No Detections Were Found.



Air Toxics

Client Sample ID: 13-SS1-111612

Lab ID#: 1211515B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113016 | Date of Collection: | 11/16/12 9:49:00 AM |
| Dil. Factor: | 2.16 | Date of Analysis: | 11/30/12 10:54 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 1-SG1-111512

Lab ID#: 1211515B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113017 | Date of Collection: | 11/15/12 8:35:00 AM |
| Dil. Factor: | 2.18 | Date of Analysis: | 11/30/12 11:10 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 5-SG1-111512

Lab ID#: 1211515B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113018 | Date of Collection: | 11/15/12 10:17:00 A |
| Dil. Factor: | 2.30 | Date of Analysis: | 11/30/12 11:17 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.12 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 11-SG1-111612

Lab ID#: 1211515B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113019 | Date of Collection: | 11/16/12 7:26:00 AM |
| Dil. Factor: | 2.30 | Date of Analysis: | 11/30/12 11:29 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 13-SG1-111512

Lab ID#: 1211515B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113020 | Date of Collection: | 11/15/12 11:34:00 A |
| Dil. Factor: | 2.50 | Date of Analysis: | 11/30/12 11:46 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.12 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 24-SG1-111512

Lab ID#: 1211515B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113021 | Date of Collection: | 11/15/12 12:35:00 P |
| Dil. Factor: | 2.44 | Date of Analysis: | 11/30/12 11:54 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.12 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 27-SG1-111512

Lab ID#: 1211515B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113022 | Date of Collection: | 11/15/12 11:38:00 A |
| Dil. Factor: | 2.18 | Date of Analysis: | 11/30/12 12:02 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 45-SG1-111512

Lab ID#: 1211515B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113023 | Date of Collection: | 11/15/12 9:10:00 AM |
| Dil. Factor: | 2.26 | Date of Analysis: | 11/30/12 12:09 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 46-SG1-111512

Lab ID#: 1211515B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113024 | Date of Collection: | 11/15/12 10:20:00 A |
| Dil. Factor: | 2.15 | Date of Analysis: | 11/30/12 12:18 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|----------|----------------|--------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: 46-SG1-111512 Lab Duplicate

Lab ID#: 1211515B-09AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|---------------------|
| File Name: | 9113025 | Date of Collection: | 11/15/12 10:20:00 A |
| Dil. Factor: | 2.15 | Date of Analysis: | 11/30/12 12:25 PM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.11 | Not Detected |

Container Type: 1 Liter Summa Canister (100% Certified)



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1211515B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | | |
|--------------|---------|---------------------|-------------------|
| File Name: | 9113004 | Date of Collection: | NA |
| Dil. Factor: | 1.00 | Date of Analysis: | 11/30/12 08:53 AM |

| Compound | Rpt. Limit (%) | Amount (%) |
|-----------------|-----------------------|-------------------|
| Helium | 0.050 | Not Detected |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCS

Lab ID#: 1211515B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | |
|--------------|---------|-------------------------------------|
| File Name: | 9113003 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 08:41 AM |

| Compound | %Recovery |
|-----------------|------------------|
| Helium | 103 |

Container Type: NA - Not Applicable



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1211515B-11AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

| | | |
|--------------|---------|-------------------------------------|
| File Name: | 9113026 | Date of Collection: NA |
| Dil. Factor: | 1.00 | Date of Analysis: 11/30/12 12:34 PM |

| Compound | %Recovery |
|-----------------|------------------|
| Helium | 107 |

Container Type: NA - Not Applicable



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 5 of 5

Project Manager Bill Beadie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Maul Foster & Alangi Email tashton@maul-foster.com
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|---|--|--|
| Project Info: P.O. # _____ Project # <u>8026 31.01-05</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Lab Use Only Pressurized by: Date: Pressurization Gas: N ₂ He |
| | specify _____ | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 13-561-111612 | 9483 | 11/16/12 | 09:44 | TD-15 SIM | -29 | -2.5 | | |
| 02A | 1-561-111512 | 36476 | 11/15/12 | 08:35 | | -30 | -4.3 | | |
| 03A | 5-561-111512 | 33727 | 11/15/12 | 10:17 | | -28 | -4.5 | | |
| 04A | 11-561-111612 | 12040 | 11/16/12 | 07:26 | | -29 | -4.5 | | |
| 05A | 13-561-111512 | 30818 | 11/15/12 | 11:34 | | -27 | -4 | | |
| 06A | 24-561-111512 | 97101 | 11/15/12 | 12:35 | | -28 | -4 | | |
| 07A | 27-561-111512 | 36414 | 11/15/12 | 11:38 | | -30 | -4 | | |
| 08A | 45-561-111512 | 37750 | 11/15/12 | 09:10 | | -30 | -4.4 | | |
| 09A | 46-561-111512 | 37749 | 11/15/12 | 10:20 | | -30 | -3.5 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 TD-15 SIM for select compounds.
 See attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211515</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

1211575

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

**Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)**

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey® database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

1/14/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01-05
Workorder #: 1211515CR1

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 11/26/2012 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1211515CR1

Work Order Summary

CLIENT: Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland, OR 97209

BILL TO: Accounts Payable
Maul Foster and Alongi Inc.
400 E. Mill Plain Blvd
Suite 400
Vancouver, WA 98660

PHONE: 971-544-2139

P.O. #

FAX: 971-544-2140

PROJECT # 8006.31.01-05 Park Laundry

DATE RECEIVED: 11/26/2012

CONTACT: Kelly Buettner

DATE COMPLETED: 12/13/2012

DATE REISSUED: 01/14/2013

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|----------------|-------------------------------|---------------------------|
| 01A | 13-SS1-111612 | Modified TO-15 | 2.0 "Hg | 15 psi |
| 02A | 1-SG1-111512 | Modified TO-15 | 2.2 "Hg | 15 psi |
| 03A | 5-SG1-111512 | Modified TO-15 | 3.6 "Hg | 15 psi |
| 04A | 11-SG1-111612 | Modified TO-15 | 3.6 "Hg | 15 psi |
| 05A | 13-SG1-111512 | Modified TO-15 | 5.8 "Hg | 15 psi |
| 06A | 24-SG1-111512 | Modified TO-15 | 5.2 "Hg | 15 psi |
| 07A | 27-SG1-111512 | Modified TO-15 | 2.2 "Hg | 15 psi |
| 08A | 45-SG1-111512 | Modified TO-15 | 3.2 "Hg | 15 psi |
| 09A | 46-SG1-111512 | Modified TO-15 | 1.8 "Hg | 15 psi |
| 10A | Lab Blank | Modified TO-15 | NA | NA |
| 11A | CCV | Modified TO-15 | NA | NA |
| 12A | LCS | Modified TO-15 | NA | NA |
| 12AA | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY: _____



Technical Director

DATE: 01/14/13 _____

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291,
TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15
Maul Foster and Alongi Inc.
Workorder# 1211515CR1

Nine 1 Liter Summa Canister (100% Certified) samples were received on November 26, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|---------------------|--|--|
| Initial Calibration | $\leq 30\%$ RSD with 2 compounds allowed out to $< 40\%$ RSD | $\leq 30\%$ RSD with 4 compounds allowed out to $< 40\%$ RSD |
| Blank and standards | Zero Air | UHP Nitrogen provides a higher purity gas matrix than zero air |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on sample 45-SG1-111512 due to the presence of high level target species.

This workorder was created to evaluate Trichloroethene (TCE) and 1,2-Dichloroethane (1,2-DCA) in all samples down to the Method Detection Limit to allow for comparison of results to the required screening levels. Please note that this workorder fraction contains only a subset of the requested analytes. The full list evaluated to the Reporting Limit (RL), including TCE and 1,2-DCA, were reported in workorder 1211515A on 12-13-12.

All canisters used for this project have been certified to the RL for the target analytes. Concentrations that are below the level at which the canister was certified may be false positives.

THE WORK ORDER WAS REISSUED ON 1/14/13 TO APPLY THE REPORTING LIMITS AND ASSOCIATED RESULTS GENERATED FROM THE FULL SCAN TO-15 DATA FILE CONSISTENT WITH WORKORDER 1211515A, RATHER THAN THE LOWER SIM REPORTING LIMITS AND RESULTS GENERATED FROM THE TO-15 SIM DATA FILE. CHANGING THE REPORTING LIMITS FROM SIM TO FULL SCAN CAUSED SOME PREVIOUSLY REPORTED COMPOUNDS TO BE BELOW THE REPORTING LIMIT AND WERE THEREFORE REPORTED AS "NOT DETECTED".

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 13-SS1-111612 | Date/Time Analyzed: | 12/3/12 02:36 PM |
| Lab ID: | 1211515CR1-01A | Dilution Factor: | 2.16 |
| Date/Time Collecte | 11/16/12 09:49 AM | Instrument/Filename: | msdv.i / v120308cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.071 | 0.44 | 0.87 | Not Detected |
| Trichloroethene | 79-01-6 | 0.18 | 0.58 | 1.2 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 100 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 1-SG1-111512 | Date/Time Analyzed: | 12/3/12 03:12 PM |
| Lab ID: | 1211515CR1-02A | Dilution Factor: | 2.18 |
| Date/Time Collecte | 11/15/12 08:35 AM | Instrument/Filename: | msdv.i / v120309cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.072 | 0.44 | 0.88 | 0.34 J |
| Trichloroethene | 79-01-6 | 0.18 | 0.58 | 1.2 | 0.95 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 99 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 112 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 5-SG1-111512 | Date/Time Analyzed: | 12/3/12 03:49 PM |
| Lab ID: | 1211515CR1-03A | Dilution Factor: | 2.30 |
| Date/Time Collecte | 11/15/12 10:17 AM | Instrument/Filename: | msdv.i / v120310cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.076 | 0.46 | 0.93 | 0.16 J |
| Trichloroethene | 79-01-6 | 0.19 | 0.62 | 1.2 | 0.48 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SG1-111612 | Date/Time Analyzed: | 12/3/12 04:31 PM |
| Lab ID: | 1211515CR1-04A | Dilution Factor: | 2.30 |
| Date/Time Collecte | 11/16/12 07:26 AM | Instrument/Filename: | msdv.i / v120311cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.076 | 0.46 | 0.93 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.62 | 1.2 | 4.7 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 97 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 11-SG1-111612 | Date/Time Analyzed: | 12/3/12 04:31 PM |
| Lab ID: | 1211515CR1-04A | Dilution Factor: | 2.30 |
| Date/Time Collecte | 11/16/12 07:26 AM | Instrument/Filename: | msdv.i / v120311cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.076 | 0.46 | 0.93 | Not Detected |
| Trichloroethene | 79-01-6 | 0.19 | 0.62 | 1.2 | 4.7 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 97 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 13-SG1-111512 | Date/Time Analyzed: | 12/3/12 05:27 PM |
| Lab ID: | 1211515CR1-05A | Dilution Factor: | 2.50 |
| Date/Time Collecte | 11/15/12 11:34 AM | Instrument/Filename: | msdv.i / v120312cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.082 | 0.50 | 1.0 | Not Detected |
| Trichloroethene | 79-01-6 | 0.21 | 0.67 | 1.3 | 0.40 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 96 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 100 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 24-SG1-111512 | Date/Time Analyzed: | 12/3/12 06:20 PM |
| Lab ID: | 1211515CR1-06A | Dilution Factor: | 2.44 |
| Date/Time Collecte | 11/15/12 12:35 PM | Instrument/Filename: | msdv.i / v120313cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.080 | 0.49 | 0.99 | Not Detected |
| Trichloroethene | 79-01-6 | 0.20 | 0.66 | 1.3 | 0.35 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 98 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 27-SG1-111512 | Date/Time Analyzed: | 12/3/12 07:21 PM |
| Lab ID: | 1211515CR1-07A | Dilution Factor: | 2.18 |
| Date/Time Collecte | 11/15/12 11:38 AM | Instrument/Filename: | msdv.i / v120314cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.072 | 0.44 | 0.88 | 0.21 J |
| Trichloroethene | 79-01-6 | 0.18 | 0.58 | 1.2 | 0.50 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |



MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 45-SG1-111512 | Date/Time Analyzed: | 12/3/12 10:46 PM |
| Lab ID: | 1211515CR1-08A | Dilution Factor: | 11.3 |
| Date/Time Collecte | 11/15/12 09:10 AM | Instrument/Filename: | msdv.i / v120317cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.37 | 2.3 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 0.93 | 3.0 | 6.1 | 1.6 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---|-----------------------------|---------------------|
| Client ID: | 46-SG1-111512 | Date/Time Analyzed: | 12/4/12 07:10 AM |
| Lab ID: | 1211515CR1-09A | Dilution Factor: | 2.15 |
| Date/Time Collecte | 11/15/12 10:20 AM | Instrument/Filename: | msdv.i / v120318cr1 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.071 | 0.44 | 0.87 | Not Detected |
| Trichloroethene | 79-01-6 | 0.18 | 0.58 | 1.2 | 0.25 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 103 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 107 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 12/3/12 01:04 PM |
| Lab ID: | 1211515CR1-10A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120306cr1 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,2-Dichloroethane | 107-06-2 | 0.033 | 0.20 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.082 | 0.27 | 0.54 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 101 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|------------------|
| Client ID: | CCV | Date/Time Analyzed: | 12/3/12 09:45 AM |
| Lab ID: | 1211515CR1-11A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120302 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 110 |
| Trichloroethene | 79-01-6 | 96 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 114 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 107 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCS | Date/Time Analyzed: | 12/3/12 10:49 AM |
| Lab ID: | 1211515CR1-12A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120303 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 117 |
| Trichloroethene | 79-01-6 | 93 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 12/3/12 11:25 AM |
| Lab ID: | 1211515CR1-12AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdv.i / v120304 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------|----------|-----------|
| 1,2-Dichloroethane | 107-06-2 | 106 |
| Trichloroethene | 79-01-6 | 93 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 457-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie / Meredith D'Andrea
 Collected by: (Print and Sign) Thomas Ashton
 Company Maul Foster & Alangi Email tashton@maulfoster.com
 Address 2001 NW 19th Ave. City Portland State OR Zip 97209
 Phone 503-944-9715 Fax _____

| | | |
|--|---|--|
| Project Info: P.O. # _____ Project # <u>8026 31.01-05</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush | Lab Use Only Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He |
| | specify _____ | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 13-561-111612 | 9483 | 11/16/12 | 09:44 | TD-15 SIM | -29 | -2.5 | | |
| 02A | 1-561-111512 | 36476 | 11/15/12 | 08:35 | | -30 | -4.3 | | |
| 03A | 5-561-111512 | 33727 | 11/15/12 | 10:17 | | -28 | -4.5 | | |
| 04A | 11-561-111612 | 12040 | 11/16/12 | 07:26 | | -29 | -4.5 | | |
| 05A | 13-561-111512 | 30818 | 11/15/12 | 11:34 | | -27 | -4 | | |
| 06A | 24-561-111512 | 97101 | 11/15/12 | 12:35 | | -28 | -4 | | |
| 07A | 27-561-111512 | 36414 | 11/15/12 | 11:38 | | -30 | -4 | | |
| 08A | 45-561-111512 | 37750 | 11/15/12 | 09:10 | | -30 | -4.4 | | |
| 09A | 46-561-111512 | 37749 | 11/15/12 | 10:20 | | -30 | -3.5 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>11/20/12 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>11/26/12 1000</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 TD-15 SIM for select compounds.
 See attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1211515</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

1211575

Mr. Guy Barrett
October 12, 2012
Page 5

Project No. 8006.31.01

SAMPLE ANALYSIS AND QUALITY ASSURANCE

Samples will be analyzed for PCE and associated breakdown products (TCE; 1,1-DCE; cis-1,2-DCE; trans-1,2-DCE; 1,1-DCA; Chloroethane; and vinyl chloride) by Modified U.S. Environmental Protection Agency (USEPA) Method TO-15 selected ion monitoring method to achieve low reporting limits. Eurofins/Air Toxics of Folsom, California, will provide a 6-liter or 1-liter, stainless steel canister (Summa canister) for each sample. Laboratory-specific method reporting limits (MRLs) for VOCs are listed in the following table. The MRLs assume a 6-liter sample size, with the canister dilution factor not incorporated. The dilution factor is determined by the canister size and residual vacuum. For example, a 1-liter sample with a vacuum of 5-inches of mercury would have a MRL approximately 2.4 times higher than the values provided in the following table. If there are high concentrations of nontarget analytes in the samples (e.g., methylene chloride, acetone, toluene), the laboratory may dilute the sample to avoid overloading and damaging its instruments. MFA will coordinate with the laboratory to obtain the lowest possible MRLs.

**Table
Analytes, Reporting Limits, and Screening Levels ($\mu\text{g}/\text{m}^3$)**

| Analyte | CAS Number | Reporting Limit | Screening Level—Air | Screening Level—Soil Gas |
|----------------|------------|-----------------|---------------------|--------------------------|
| PCE | 127-18-4 | 0.14 | 9.6 | 96 |
| TCE | 79-01-6 | 0.016 | 0.37 | 3.7 |
| 1,1-DCE | 75-35-4 | 0.04 | 91 | 910 |
| cis-1,2-DCE | 156-59-2 | 0.08 | 16 | 160 |
| trans-1,2-DCE | 156-60-5 | 0.40 | 32 | 320 |
| 1,1-DCA | 75-34-3 | 0.08 | 320 | 3200 |
| Chloroethane | 75-00-3 | 0.13 | 3 | 30 |
| Vinyl chloride | 75-01-4 | 0.03 | 0.28 | 2.8 |
| Helium | 7440-59-7 | 81799 | NE | NE |

NOTES:
Screening levels are based on Table B-1 of Ecology Guidance for Evaluating Soil Vapor Intrusion in Washington State: Investigation and Remedial Action. Values for PCE and TCE are based on CLARC guidance dated September, 2012.
CAS = Chemical Abstract Service
NE = Not Established
 $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

MFA will receive the data electronically from the laboratory and the data will be transferred to a GISKey® database. The data will be validated consistent with Ecology and USEPA protocols. To document data reliability, a memorandum will be prepared summarizing

8/20/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01
Workorder #: 1308171

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 8/6/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1308171

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01 Park Laundry |
| DATE RECEIVED: | 08/06/2013 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 08/20/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|----------------|-------------------------------|---------------------------|
| 01A | 28-SG1-073013 | Modified TO-15 | 5.3 "Hg | 14.7 psi |
| 02A | 13-SG1-073013 | Modified TO-15 | 6.7 "Hg | 15 psi |
| 03A | 44-SG1-073113 | Modified TO-15 | 4.3 "Hg | 15 psi |
| 04A | 45-SG1-073113 | Modified TO-15 | 4.5 "Hg | 14.8 psi |
| 05A | 46-SG1-073013 | Modified TO-15 | 5.3 "Hg | 15.1 psi |
| 06A | 27-SG1-072913 | Modified TO-15 | 5.9 "Hg | 15 psi |
| 07A | 5-SG1-073013 | Modified TO-15 | 4.1 "Hg | 14.9 psi |
| 08A | 11-SG1-073113 | Modified TO-15 | 5.7 "Hg | 14.7 psi |
| 09A | 24-SG1-073013 | Modified TO-15 | 7.1 "Hg | 14.8 psi |
| 10A | 5-SS1-073013 | Modified TO-15 | 3.3 "Hg | 14.7 psi |
| 11A | 5-SS2-073013 | Modified TO-15 | 3.5 "Hg | 15.2 psi |
| 12A | 1-SS3-072913 | Modified TO-15 | 4.1 "Hg | 14.7 psi |
| 13A | 1-SS2-072913 | Modified TO-15 | 3.9 "Hg | 15.1 psi |
| 14A | 1-SS1-072913 | Modified TO-15 | 4.3 "Hg | 14.7 psi |
| 15A | 7-SS3-072913 | Modified TO-15 | 5.3 "Hg | 15 psi |
| 16A | 7-SS2-072913 | Modified TO-15 | 4.3 "Hg | 14.9 psi |
| 17A | 7-SS1-072913 | Modified TO-15 | 4.5 "Hg | 14.8 psi |
| 18A | 13-SS1-073013 | Modified TO-15 | 6.7 "Hg | 14.6 psi |
| 19A | 11-SS4-073113 | Modified TO-15 | 3.9 "Hg | 14.8 psi |
| 20A | 11-SS3-073113 | Modified TO-15 | 3.7 "Hg | 14.8 psi |
| 21A | 11-SS2-073113 | Modified TO-15 | 5.5 "Hg | 14.8 psi |
| 22A | 11-SS1-073113 | Modified TO-15 | 4.5 "Hg | 14.7 psi |
| 23A | Lab Blank | Modified TO-15 | NA | NA |

Continued on next page

WORK ORDER #: 1308171

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01 Park Laundry |
| DATE RECEIVED: | 08/06/2013 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 08/20/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|----------------|-------------------------------|---------------------------|
| 23B | Lab Blank | Modified TO-15 | NA | NA |
| 23C | Lab Blank | Modified TO-15 | NA | NA |
| 24A | CCV | Modified TO-15 | NA | NA |
| 24B | CCV | Modified TO-15 | NA | NA |
| 24C | CCV | Modified TO-15 | NA | NA |
| 25A | LCS | Modified TO-15 | NA | NA |
| 25AA | LCSD | Modified TO-15 | NA | NA |
| 25B | LCS | Modified TO-15 | NA | NA |
| 25BB | LCSD | Modified TO-15 | NA | NA |
| 25C | LCS | Modified TO-15 | NA | NA |
| 25CC | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 08/20/13

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291,
 TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, VA NELAP - 460197, WA NELAP - C935
 Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.
 180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9562
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
EPA Method TO-15
Maul Foster and Alongi Inc.
Workorder# 1308171

twenty-two 1 Liter Summa Canister (100% Certified) samples were received on August 06, 2013. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

As per client project requirements, the laboratory has reported estimated values for Vinyl Chloride, 1,2-Dichloroethane, Trichloroethene hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on samples 28-SG1-073013 and 44-SG1-073113 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 28-SG1-073013 | Date/Time Analyzed: | 8/18/13 10:31 PM |
| Lab ID: | 1308171-01A | Dilution Factor: | 16.2 |
| Date/Time Collected: | 7/30/13 03:17 PM | Instrument/Filename: | msdj.i / j081827 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 6.5 | 13 | 33 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 9.7 | 13 | 32 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 6.2 | 13 | 33 | Not Detected |
| Chloroethane | 75-00-3 | 29 | 34 | 85 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 5.8 | 13 | 32 | Not Detected |
| Tetrachloroethene | 127-18-4 | 18 | 22 | 55 | 16000 |
| trans-1,2-Dichloroethene | 156-60-5 | 11 | 13 | 32 | Not Detected |
| Trichloroethene | 79-01-6 | 11 | 17 | 44 | Not Detected |
| Vinyl Chloride | 75-01-4 | 5.3 | 8.3 | 21 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 97 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |



Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 13-SG1-073013 | Date/Time Analyzed: | 8/16/13 08:22 PM |
| Lab ID: | 1308171-02A | Dilution Factor: | 2.60 |
| Date/Time Collected: | 7/30/13 01:54 PM | Instrument/Filename: | msdj.i / j081612 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 1.0 | 2.1 | 5.3 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.6 | 2.1 | 5.2 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.99 | 2.1 | 5.3 | Not Detected |
| Chloroethane | 75-00-3 | 4.6 | 5.5 | 14 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.94 | 2.1 | 5.2 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.9 | 3.5 | 8.8 | 30 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.8 | 2.1 | 5.2 | Not Detected |
| Trichloroethene | 79-01-6 | 1.8 | 2.8 | 7.0 | 2.4 J |
| Vinyl Chloride | 75-01-4 | 0.86 | 1.3 | 3.3 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 83 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |



EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 44-SG1-073113 | Date/Time Analyzed: | 8/18/13 12:42 PM |
| Lab ID: | 1308171-03A | Dilution Factor: | 9.44 |
| Date/Time Collected: | 7/31/13 10:00 AM | Instrument/Filename: | msdj.i / j081808 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 3.8 | 7.6 | 19 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 5.7 | 7.5 | 19 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 3.6 | 7.6 | 19 | Not Detected |
| Chloroethane | 75-00-3 | 17 | 20 | 50 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 3.4 | 7.5 | 19 | Not Detected |
| Tetrachloroethene | 127-18-4 | 10 | 13 | 32 | 9500 |
| trans-1,2-Dichloroethene | 156-60-5 | 6.7 | 7.5 | 19 | Not Detected |
| Trichloroethene | 79-01-6 | 6.5 | 10 | 25 | Not Detected |
| Vinyl Chloride | 75-01-4 | 3.1 | 4.8 | 12 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 82 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |



Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 45-SG1-073113 | Date/Time Analyzed: | 8/16/13 09:58 PM |
| Lab ID: | 1308171-04A | Dilution Factor: | 2.36 |
| Date/Time Collected: | 7/31/13 09:32 AM | Instrument/Filename: | msdj.i / j081614 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.94 | 1.9 | 4.8 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.9 | 4.7 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.90 | 1.9 | 4.8 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 5.0 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.85 | 1.9 | 4.7 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 8.0 | 1800 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.7 | 1.9 | 4.7 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.78 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 82 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 46-SG1-073013 | Date/Time Analyzed: | 8/18/13 01:31 PM |
| Lab ID: | 1308171-05A | Dilution Factor: | 2.46 |
| Date/Time Collected: | 7/30/13 09:47 AM | Instrument/Filename: | msdj.i / j081809 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.98 | 2.0 | 5.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.5 | 2.0 | 4.9 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.94 | 2.0 | 5.0 | 1.2 J |
| Chloroethane | 75-00-3 | 4.4 | 5.2 | 13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.89 | 2.0 | 4.9 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.7 | 3.3 | 8.3 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.7 | 2.0 | 4.9 | Not Detected |
| Trichloroethene | 79-01-6 | 1.7 | 2.6 | 6.6 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.81 | 1.2 | 3.1 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 81 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 102 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 27-SG1-072913 | Date/Time Analyzed: | 8/18/13 02:37 PM |
| Lab ID: | 1308171-06A | Dilution Factor: | 2.52 |
| Date/Time Collected: | 7/29/13 03:08 PM | Instrument/Filename: | msdj.i / j081810 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 1.0 | 2.0 | 5.1 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.5 | 2.0 | 5.0 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.96 | 2.0 | 5.1 | Not Detected |
| Chloroethane | 75-00-3 | 4.5 | 5.3 | 13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.91 | 2.0 | 5.0 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.8 | 3.4 | 8.5 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.8 | 2.0 | 5.0 | Not Detected |
| Trichloroethene | 79-01-6 | 1.7 | 2.7 | 6.8 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.83 | 1.3 | 3.2 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 82 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 5-SG1-073013 | Date/Time Analyzed: | 8/18/13 03:04 PM |
| Lab ID: | 1308171-07A | Dilution Factor: | 2.33 |
| Date/Time Collected: | 7/30/13 10:00 AM | Instrument/Filename: | msdj.i / j081811 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.93 | 1.9 | 4.7 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.89 | 1.9 | 4.7 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 4.9 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.84 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 7.9 | 250 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.77 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 81 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 11-SG1-073113 | Date/Time Analyzed: | 8/18/13 03:32 PM |
| Lab ID: | 1308171-08A | Dilution Factor: | 2.47 |
| Date/Time Collected: | 7/31/13 11:03 AM | Instrument/Filename: | msdj.i / j081812 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.99 | 2.0 | 5.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.5 | 2.0 | 4.9 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.94 | 2.0 | 5.0 | Not Detected |
| Chloroethane | 75-00-3 | 4.4 | 5.2 | 13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.89 | 2.0 | 4.9 | 13 |
| Tetrachloroethene | 127-18-4 | 2.8 | 3.4 | 8.4 | 34 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.8 | 2.0 | 4.9 | Not Detected |
| Trichloroethene | 79-01-6 | 1.7 | 2.6 | 6.6 | 5.2 J |
| Vinyl Chloride | 75-01-4 | 0.81 | 1.3 | 3.2 | 2.7 J |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 81 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 100 |
| Toluene-d8 | 2037-26-5 | 70-130 | 94 |



EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 24-SG1-073013 | Date/Time Analyzed: | 8/18/13 03:59 PM |
| Lab ID: | 1308171-09A | Dilution Factor: | 2.63 |
| Date/Time Collected: | 7/30/13 03:37 PM | Instrument/Filename: | msdj.i / j081813 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 1.0 | 2.1 | 5.3 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.6 | 2.1 | 5.2 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 1.0 | 2.1 | 5.3 | Not Detected |
| Chloroethane | 75-00-3 | 4.7 | 5.6 | 14 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.95 | 2.1 | 5.2 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.9 | 3.6 | 8.9 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.9 | 2.1 | 5.2 | Not Detected |
| Trichloroethene | 79-01-6 | 1.8 | 2.8 | 7.1 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.87 | 1.3 | 3.4 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 82 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 94 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 5-SS1-073013 | Date/Time Analyzed: | 8/18/13 05:21 PM |
| Lab ID: | 1308171-10A | Dilution Factor: | 2.24 |
| Date/Time Collected: | 7/30/13 11:00 AM | Instrument/Filename: | msdj.i / j081816 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.90 | 1.8 | 4.5 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.3 | 1.8 | 4.4 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.86 | 1.8 | 4.5 | Not Detected |
| Chloroethane | 75-00-3 | 4.0 | 4.7 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.81 | 1.8 | 4.4 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.5 | 3.0 | 7.6 | 750 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.4 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.4 | 6.0 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.74 | 1.1 | 2.9 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 80 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 5-SS2-073013 | Date/Time Analyzed: | 8/18/13 04:54 PM |
| Lab ID: | 1308171-11A | Dilution Factor: | 2.30 |
| Date/Time Collected: | 7/30/13 10:57 AM | Instrument/Filename: | msdj.i / j081815 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.92 | 1.9 | 4.6 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.88 | 1.9 | 4.6 | Not Detected |
| Chloroethane | 75-00-3 | 4.1 | 4.8 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.83 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.1 | 7.8 | 320 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.2 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.76 | 1.2 | 2.9 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 79 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 101 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 1-SS3-072913 | Date/Time Analyzed: | 8/18/13 06:43 PM |
| Lab ID: | 1308171-12A | Dilution Factor: | 2.32 |
| Date/Time Collected: | 7/29/13 01:50 PM | Instrument/Filename: | msdj.i / j081819 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.93 | 1.9 | 4.7 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.88 | 1.9 | 4.7 | Not Detected |
| Chloroethane | 75-00-3 | 4.1 | 4.9 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.84 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.1 | 7.9 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.2 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.76 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 86 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 1-SS2-072913 | Date/Time Analyzed: | 8/18/13 07:05 PM |
| Lab ID: | 1308171-13A | Dilution Factor: | 2.33 |
| Date/Time Collected: | 7/29/13 12:47 PM | Instrument/Filename: | msdj.i / j081820 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.93 | 1.9 | 4.7 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.89 | 1.9 | 4.7 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 4.9 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.84 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 7.9 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.77 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 84 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 1-SS1-072913 | Date/Time Analyzed: | 8/18/13 08:48 PM |
| Lab ID: | 1308171-14A | Dilution Factor: | 2.33 |
| Date/Time Collected: | 7/29/13 12:52 PM | Instrument/Filename: | msdj.i / j081823 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.93 | 1.9 | 4.7 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.89 | 1.9 | 4.7 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 4.9 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.84 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 7.9 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.6 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.77 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 7-SS3-072913 | Date/Time Analyzed: | 8/18/13 09:14 PM |
| Lab ID: | 1308171-15A | Dilution Factor: | 2.45 |
| Date/Time Collected: | 7/29/13 11:01 AM | Instrument/Filename: | msdj.i / j081824 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.98 | 2.0 | 5.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.5 | 1.9 | 4.8 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.94 | 2.0 | 5.0 | Not Detected |
| Chloroethane | 75-00-3 | 4.4 | 5.2 | 13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.88 | 1.9 | 4.8 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.7 | 3.3 | 8.3 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.7 | 1.9 | 4.8 | Not Detected |
| Trichloroethene | 79-01-6 | 1.7 | 2.6 | 6.6 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.81 | 1.2 | 3.1 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 93 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 7-SS2-072913 | Date/Time Analyzed: | 8/18/13 09:38 PM |
| Lab ID: | 1308171-16A | Dilution Factor: | 2.35 |
| Date/Time Collected: | 7/29/13 11:40 AM | Instrument/Filename: | msdj.i / j081825 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.94 | 1.9 | 4.8 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.9 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.90 | 1.9 | 4.8 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 5.0 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.85 | 1.9 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 8.0 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.7 | 1.9 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.78 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 91 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 7-SS1-072913 | Date/Time Analyzed: | 8/18/13 10:01 PM |
| Lab ID: | 1308171-17A | Dilution Factor: | 2.36 |
| Date/Time Collected: | 7/29/13 10:51 AM | Instrument/Filename: | msdj.i / j081826 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.94 | 1.9 | 4.8 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.4 | 1.9 | 4.7 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.90 | 1.9 | 4.8 | Not Detected |
| Chloroethane | 75-00-3 | 4.2 | 5.0 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.85 | 1.9 | 4.7 | Not Detected |
| Tetrachloroethene | 127-18-4 | 2.6 | 3.2 | 8.0 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.7 | 1.9 | 4.7 | Not Detected |
| Trichloroethene | 79-01-6 | 1.6 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.78 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 89 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 13-SS1-073013 | Date/Time Analyzed: | 8/18/13 10:41 PM |
| Lab ID: | 1308171-18A | Dilution Factor: | 2.57 |
| Date/Time Collected: | 7/30/13 02:11 PM | Instrument/Filename: | msd3.i / 3081824 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 1.0 | 2.1 | 5.2 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.1 | 2.0 | 5.1 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.85 | 2.1 | 5.2 | Not Detected |
| Chloroethane | 75-00-3 | 2.4 | 6.1 | 14 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 1.3 | 2.0 | 5.1 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.6 | 3.5 | 8.7 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.3 | 2.0 | 5.1 | Not Detected |
| Trichloroethene | 79-01-6 | 1.2 | 2.8 | 6.9 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.96 | 1.3 | 3.3 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 94 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 11-SS4-073113 | Date/Time Analyzed: | 8/18/13 10:09 PM |
| Lab ID: | 1308171-19A | Dilution Factor: | 2.30 |
| Date/Time Collected: | 7/31/13 01:56 PM | Instrument/Filename: | msd3.i / 3081823 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.92 | 1.9 | 4.6 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.0 | 1.8 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.76 | 1.9 | 4.6 | Not Detected |
| Chloroethane | 75-00-3 | 2.1 | 5.5 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 1.2 | 1.8 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.4 | 3.1 | 7.8 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.2 | 1.8 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.1 | 2.5 | 6.2 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.86 | 1.2 | 2.9 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 89 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 11-SS3-073113 | Date/Time Analyzed: | 8/18/13 09:43 PM |
| Lab ID: | 1308171-20A | Dilution Factor: | 2.29 |
| Date/Time Collected: | 7/31/13 01:03 PM | Instrument/Filename: | msd3.i / 3081822 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.92 | 1.8 | 4.6 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.99 | 1.8 | 4.5 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.76 | 1.8 | 4.6 | Not Detected |
| Chloroethane | 75-00-3 | 2.1 | 5.4 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 1.2 | 1.8 | 4.5 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.4 | 3.1 | 7.8 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.2 | 1.8 | 4.5 | Not Detected |
| Trichloroethene | 79-01-6 | 1.1 | 2.5 | 6.2 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.85 | 1.2 | 2.9 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |



Air Toxics

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 11-SS2-073113 | Date/Time Analyzed: | 8/18/13 09:18 PM |
| Lab ID: | 1308171-21A | Dilution Factor: | 2.46 |
| Date/Time Collected: | 7/31/13 12:52 PM | Instrument/Filename: | msd3.i / 3081821 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.99 | 2.0 | 5.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.1 | 2.0 | 4.9 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.81 | 2.0 | 5.0 | Not Detected |
| Chloroethane | 75-00-3 | 2.3 | 5.8 | 13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 1.2 | 2.0 | 4.9 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.5 | 3.3 | 8.3 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 1.2 | 2.0 | 4.9 | Not Detected |
| Trichloroethene | 79-01-6 | 1.2 | 2.6 | 6.6 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.92 | 1.2 | 3.1 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 86 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---|-----------------------------|------------------|
| Client ID: | 11-SS1-073113 | Date/Time Analyzed: | 8/18/13 08:48 PM |
| Lab ID: | 1308171-22A | Dilution Factor: | 2.35 |
| Date/Time Collected: | 7/31/13 01:39 PM | Instrument/Filename: | msd3.i / 3081820 |
| Media: | 1 Liter Summa Canister (100% Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.94 | 1.9 | 4.8 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 1.0 | 1.9 | 4.6 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.78 | 1.9 | 4.8 | Not Detected |
| Chloroethane | 75-00-3 | 2.2 | 5.6 | 12 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 1.2 | 1.9 | 4.6 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.4 | 3.2 | 8.0 | 10 |
| trans-1,2-Dichloroethene | 156-60-5 | 1.2 | 1.9 | 4.6 | Not Detected |
| Trichloroethene | 79-01-6 | 1.1 | 2.5 | 6.3 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.88 | 1.2 | 3.0 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/16/13 03:16 PM |
| Lab ID: | 1308171-23A | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081606a |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.40 | 0.81 | 2.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.60 | 0.79 | 2.0 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.38 | 0.81 | 2.0 | Not Detected |
| Chloroethane | 75-00-3 | 1.8 | 2.1 | 5.3 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.36 | 0.79 | 2.0 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.1 | 1.4 | 3.4 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.71 | 0.79 | 2.0 | Not Detected |
| Trichloroethene | 79-01-6 | 0.69 | 1.1 | 2.7 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.33 | 0.51 | 1.3 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 86 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/18/13 11:22 AM |
| Lab ID: | 1308171-23B | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081806a |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.40 | 0.81 | 2.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.60 | 0.79 | 2.0 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.38 | 0.81 | 2.0 | 0.40 J |
| Chloroethane | 75-00-3 | 1.8 | 2.1 | 5.3 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.36 | 0.79 | 2.0 | Not Detected |
| Tetrachloroethene | 127-18-4 | 1.1 | 1.4 | 3.4 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.71 | 0.79 | 2.0 | Not Detected |
| Trichloroethene | 79-01-6 | 0.69 | 1.1 | 2.7 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.33 | 0.51 | 1.3 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 82 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|-------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/18/13 10:48 AM |
| Lab ID: | 1308171-23C | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msd3.i / 3081805a |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.40 | 0.81 | 2.0 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.43 | 0.79 | 2.0 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.33 | 0.81 | 2.0 | 0.43 J |
| Chloroethane | 75-00-3 | 0.93 | 2.4 | 5.3 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.51 | 0.79 | 2.0 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.61 | 1.4 | 3.4 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.51 | 0.79 | 2.0 | Not Detected |
| Trichloroethene | 79-01-6 | 0.47 | 1.1 | 2.7 | 0.55 J |
| Vinyl Chloride | 75-01-4 | 0.37 | 0.51 | 1.3 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 77 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 91 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/16/13 12:41 PM |
| Lab ID: | 1308171-24A | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081602 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 89 |
| 1,1-Dichloroethene | 75-35-4 | 99 |
| 1,2-Dichloroethane | 107-06-2 | 87 |
| Chloroethane | 75-00-3 | 90 |
| cis-1,2-Dichloroethene | 156-59-2 | 97 |
| Tetrachloroethene | 127-18-4 | 97 |
| trans-1,2-Dichloroethene | 156-60-5 | 96 |
| Trichloroethene | 79-01-6 | 94 |
| Vinyl Chloride | 75-01-4 | 98 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 93 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 99 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/18/13 08:52 AM |
| Lab ID: | 1308171-24B | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081802 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 87 |
| 1,1-Dichloroethene | 75-35-4 | 99 |
| 1,2-Dichloroethane | 107-06-2 | 78 |
| Chloroethane | 75-00-3 | 97 |
| cis-1,2-Dichloroethene | 156-59-2 | 105 |
| Tetrachloroethene | 127-18-4 | 98 |
| trans-1,2-Dichloroethene | 156-60-5 | 97 |
| Trichloroethene | 79-01-6 | 92 |
| Vinyl Chloride | 75-01-4 | 100 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 78 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 98 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/18/13 09:04 AM |
| Lab ID: | 1308171-24C | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msd3.i / 3081802 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 86 |
| 1,1-Dichloroethene | 75-35-4 | 111 |
| 1,2-Dichloroethane | 107-06-2 | 76 |
| Chloroethane | 75-00-3 | 87 |
| cis-1,2-Dichloroethene | 156-59-2 | 107 |
| Tetrachloroethene | 127-18-4 | 111 |
| trans-1,2-Dichloroethene | 156-60-5 | 102 |
| Trichloroethene | 79-01-6 | 92 |
| Vinyl Chloride | 75-01-4 | 86 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 77 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 107 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/16/13 01:15 PM |
| Lab ID: | 1308171-25A | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081603 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 88 |
| 1,1-Dichloroethene | 75-35-4 | 110 |
| 1,2-Dichloroethane | 107-06-2 | 89 |
| Chloroethane | 75-00-3 | 96 |
| cis-1,2-Dichloroethene | 156-59-2 | 99 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 112 |
| Trichloroethene | 79-01-6 | 102 |
| Vinyl Chloride | 75-01-4 | 104 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/16/13 01:51 PM |
| Lab ID: | 1308171-25AA | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081604 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | | %Recovery |
|--------------------------|----------|--|-----------|
| 1,1-Dichloroethane | 75-34-3 | | 90 |
| 1,1-Dichloroethene | 75-35-4 | | 110 |
| 1,2-Dichloroethane | 107-06-2 | | 88 |
| Chloroethane | 75-00-3 | | 99 |
| cis-1,2-Dichloroethene | 156-59-2 | | 100 |
| Tetrachloroethene | 127-18-4 | | 98 |
| trans-1,2-Dichloroethene | 156-60-5 | | 112 |
| Trichloroethene | 79-01-6 | | 102 |
| Vinyl Chloride | 75-01-4 | | 104 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 88 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 101 |

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/18/13 09:25 AM |
| Lab ID: | 1308171-25B | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081803 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 90 |
| 1,1-Dichloroethene | 75-35-4 | 113 |
| 1,2-Dichloroethane | 107-06-2 | 77 |
| Chloroethane | 75-00-3 | 102 |
| cis-1,2-Dichloroethene | 156-59-2 | 102 |
| Tetrachloroethene | 127-18-4 | 101 |
| trans-1,2-Dichloroethene | 156-60-5 | 116 |
| Trichloroethene | 79-01-6 | 100 |
| Vinyl Chloride | 75-01-4 | 108 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 80 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 97 |

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/18/13 09:49 AM |
| Lab ID: | 1308171-25BB | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msdj.i / j081804 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | | %Recovery |
|--------------------------|----------|--|-----------|
| 1,1-Dichloroethane | 75-34-3 | | 86 |
| 1,1-Dichloroethene | 75-35-4 | | 106 |
| 1,2-Dichloroethane | 107-06-2 | | 77 |
| Chloroethane | 75-00-3 | | 94 |
| cis-1,2-Dichloroethene | 156-59-2 | | 99 |
| Tetrachloroethene | 127-18-4 | | 98 |
| trans-1,2-Dichloroethene | 156-60-5 | | 113 |
| Trichloroethene | 79-01-6 | | 98 |
| Vinyl Chloride | 75-01-4 | | 106 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 80 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 104 |
| Toluene-d8 | 2037-26-5 | 70-130 | 100 |

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/18/13 09:34 AM |
| Lab ID: | 1308171-25C | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msd3.i / 3081803 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 90 |
| 1,1-Dichloroethene | 75-35-4 | 124 |
| 1,2-Dichloroethane | 107-06-2 | 78 |
| Chloroethane | 75-00-3 | 90 |
| cis-1,2-Dichloroethene | 156-59-2 | 112 |
| Tetrachloroethene | 127-18-4 | 111 |
| trans-1,2-Dichloroethene | 156-60-5 | 123 |
| Trichloroethene | 79-01-6 | 95 |
| Vinyl Chloride | 75-01-4 | 93 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 80 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
Park Laundry

| | | | |
|-----------------------------|---------------------|-----------------------------|------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/18/13 10:18 AM |
| Lab ID: | 1308171-25CC | Dilution Factor: | 1.00 |
| Date/Time Collected: | NA - Not Applicable | Instrument/Filename: | msd3.i / 3081804 |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 77 |
| 1,1-Dichloroethene | 75-35-4 | 106 |
| 1,2-Dichloroethane | 107-06-2 | 67 Q |
| Chloroethane | 75-00-3 | 79 |
| cis-1,2-Dichloroethene | 156-59-2 | 94 |
| Tetrachloroethene | 127-18-4 | 94 |
| trans-1,2-Dichloroethene | 156-60-5 | 104 |
| Trichloroethene | 79-01-6 | 82 |
| Vinyl Chloride | 75-01-4 | 81 |

Q = Exceeds Quality Control limits.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 76 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 106 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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Project Manager Bill Bredie
 Collected by: (Print and Sign) Thomas Ashton
 Company MAFA Email taskforce@mafa.com
 Address 2001 1st Ave City Portland State OR Zip 97201
 Phone 503-572-2704 Fax _____

| | | |
|---------------------------------|---|---|
| Project Info: | Turn Around Time: | Can Ship Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: |
| R.O. # _____ | | |
| Project # <u>8006 31201</u> | | |
| Project Name <u>Park Landsc</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analytes Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|-----------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (lab) |
| 018 | 28-561-073013 | 1348 | 7/30/13 | 15:17 | TO-15, 9cm, 500, 2000 | -30 | -5 | | |
| 019 | 13-561-073013 | 9311 | 7/30/13 | 13:54 | | -30 | -4 | | |
| 020 | 44-561-073113 | 37317 | 7/31/13 | 10:00 | | -30 | -4 | | |
| 021 | 45-561-073113 | 37697 | 7/31/13 | 09:32 | | -29 | -5 | | |
| 022 | 46-561-073013 | 33400 | 7/30/13 | 09:47 | | -29 | -5 | | |
| 023 | 27-561-072913 | 37341 | 7/29/13 | 16:08 | | -30 | -4 | | |
| 024 | 5-561-073013 | 37786 | 7/30/13 | 10:00 | | -30 | -5 | | |
| 025 | 11-561-073113 | 37414 | 7/31/13 | 11:03 | | -29 | -4 | | |
| 026 | 24-561-073013 | 36374 | 7/30/13 | 15:37 | | -29.5 | -4.5 | | |
| 027 | 5-561-073013 | 34100 | 7/30/13 | 11:00 | | -30 | -5 | | |

| | |
|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>8/1/13 11:00</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 See attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|--------------------|------------------------|---|-----------------------------|
| Lab Use Only | Shipper Name <u>LPS</u> | Air Bill # _____ | Temp (C) <u>NA</u> | Corruption <u>9002</u> | Outslopy Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> None | Work Order # <u>1308171</u> |
|--------------|-------------------------|------------------|--------------------|------------------------|---|-----------------------------|



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4022

180 BLUE RAVINE ROAD, SUITE 8
 FOLSOM, CA 95630-4719
 (916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie
 Collected by: Print and Sign Thomas Adams
 Company MEA Email tom@mea.com
 Address 2001 NW 15th Ave City Portland State OR Zip 97209
 Phone 503-361-5289 Fax

| | | | |
|----------------------------------|--|--------------------------|---------------------|
| Project Info: | | Turn Around Time: | Lab Use Only |
| R.O. # | <input checked="" type="checkbox"/> Normal | | Pressurized by: |
| Project # <u>5006 31.03</u> | <input type="checkbox"/> Rush | | Date: |
| Project Name <u>Park Laundry</u> | | | Pressurization Gas: |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analysis Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|--------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| WA | 5-552-073013 | 12031 | 7/20/13 | 10:57 | SO4S SW: 2005 | -30 | -5 | | |
| WA | 1-553-072913 | 15770 | 7/29/13 | 13:50 | | -28 | -5 | | |
| WA | 1-552-072913 | 31795 | 7/29/13 | 12:47 | | -29.5 | -5 | | |
| WA | 1-551-072913 | 37419 | 7/29/13 | 12:52 | | -29.5 | -5 | | |
| WA | 7-553-072913 | 37795 | 7/29/13 | 11:01 | | -28 | -5 | | |
| WA | 7-552-072913 | 54169 | 7/29/13 | 11:40 | | -29.5 | -5 | | |
| WA | 7-551-072913 | 31796 | 7/29/13 | 10:51 | | -29.5 | -5 | | |
| WA | 13-551-073013 | 30627 | 7/30/13 | 14:11 | | -28 | -5 | | |
| WA | 11-554-073113 | 39058 | 7/31/13 | 13:56 | | -30 | -5 | | |
| WA | 11-553-073113 | 3249 | 7/31/13 | 13:03 | | -30 | -5 | | |

| | | |
|---|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>09/06/13 11:05</u> | Notes: <u>See attachment for list of compounds and reporting limits</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|-------------------|---------------------|-----------------------|--|----------------------------|
| Lab Use Only | Shipper Name <u>MEA</u> | Alt. Bill # _____ | Temp (°C) <u>NA</u> | Condition <u>GOOD</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>308171</u> |
|--------------|-------------------------|-------------------|---------------------|-----------------------|--|----------------------------|



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Requiring signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Requiring signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.I. Hotline (800) 457-4929

180 BLUE HAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-7000 FAX (916) 985-1420

Project Manager B. H. Beaudin
 Collected by: (Print and sign) Thomas Ashton
 Company A/EA Email thomas@newfast.com
 Address 2001 New 19th Ave City Porterville State CA Zip 93257
 Phone 562-501-5204 Fax _____

| | | |
|-----------------------------------|--|---------------------------|
| Project Info: | Turn Around Time: | Lab Use Only |
| P.O. # _____ | <input checked="" type="checkbox"/> Normal | Pressurized by: _____ |
| Project # <u>8006 71.02</u> | <input type="checkbox"/> Rush | Date: _____ |
| Project Name <u>Park Landfill</u> | specify _____ | Pressurization Gas: _____ |
| | | N. He |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|------------|------------------------------|--------------|--------------------|--------------------|--------------------|--------------------------|-------------|-------|-------|
| | | | | | | Initial | Final | Prep. | Final |
| <u>21A</u> | <u>11-552-073113</u> | <u>35640</u> | <u>7/31/13</u> | <u>12:52</u> | <u>TO-15 SIM</u> | <u>-29</u> | <u>-5</u> | | |
| <u>22A</u> | <u>11-551-073113</u> | <u>37713</u> | <u>7/31/13</u> | <u>13:39</u> | | <u>-30</u> | <u>-5</u> | | |
| | <u>13-1A2-073013</u> | <u>33576</u> | <u>7/30/13</u> | <u>13:59</u> | | <u>-30</u> | <u>-7.5</u> | | |
| | <u>13-1A1-073013</u> | <u>1588</u> | <u>7/30/13</u> | <u>13:36</u> | | <u>-30</u> | <u>-2.5</u> | | |
| | <u>5-1A3-073013</u> | <u>4211</u> | <u>7/30/13</u> | <u>12:14</u> | | <u>-24</u> | <u>-5</u> | | |
| | <u>0A3-073013</u> | <u>12957</u> | <u>7/30/13</u> | <u>13:22</u> | <u>Hold</u> | <u>-30</u> | <u>-5</u> | | |
| | <u>11-1A7-072913</u> | <u>33909</u> | <u>7/29/13</u> | <u>12:36</u> | <u>TO-15 SIM</u> | <u>-20</u> | <u>-3</u> | | |
| | <u>11-1A5-072913</u> | <u>11026</u> | <u>7/29/13</u> | <u>12:38</u> | | <u>-24</u> | <u>-3.5</u> | | |
| | <u>0A1-072913</u> | <u>5361</u> | <u>7/29/13</u> | <u>11:32</u> | <u>Hold</u> | <u>-30</u> | <u>-5</u> | | |
| | <u>11-1A1-072913</u> | <u>5365</u> | <u>7/29/13</u> | <u>12:34</u> | <u>TO-15 SIM</u> | <u>-28</u> | <u>-4</u> | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/1/13 13:00</u> | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 See attachment for list of compounds and reporting limits

| | | | | | | |
|--------------|--------------------|------------------|------------------|-----------------|----------------------------|----------------------------|
| Lab Use Only | Shipper Name _____ | Air Bill # _____ | Temp. (°C) _____ | Condition _____ | Dirty Seals/Interal? _____ | Work Order # <u>130871</u> |
| | | | | | Yes No None | |

Attachment

1308171

MFA Project #8006.31.01

Here is the list of analytes with our screening values.

For all of the listed analytes, please ensure that the reported concentrations on the issued report(s) are below the screening values listed below. In most cases, the MRL will be below the screening value so the MRL should be reported. However, some samples may need the MDL reported instead, in order to attain a reported value below the screening value. Please use the MRL as the default reported value, unless the MDL is necessary.

Please assess the need to use the MRL or MDL on a sample by sample (and analyte by analyte) basis.

| Analyte | Air Screening Values ($\mu\text{g}/\text{m}^3$) for 6-liter canisters | Soil Gas Screening Values ($\mu\text{g}/\text{m}^3$) for 1-liter canisters |
|--------------------------|---|--|
| 1,1-dichloroethane | 320 | 3200 |
| 1,1-dichloroethene | 91 | 910 |
| 1,2-dichloroethane | 0.096 | 0.96 |
| Chloroethane | 3 | 30 |
| Cis-1,2-dichloroethene | 16 | 160 |
| Tetrachloroethene | 9.6 | 96 |
| Trans-1,2-dichloroethene | 32 | 320 |
| Trichloroethene | 0.37 | 3.7 |
| Vinyl chloride | 0.28 | 2.8 |
| Helium | Please Report to the MRL | Please Report to the MRL |

Please give me a call if you have any questions regarding this request.

Regards,

Thomas Ashton

503-501-5201

8/19/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01
Workorder #: 1308172A

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 8/6/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1308172A

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01 Park Laundry |
| DATE RECEIVED: | 08/06/2013 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 08/19/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 13-IA2-073013 | Modified TO-15 SIM | 1.0 "Hg | 5 psi |
| 02A | 13-IA1-073013 | Modified TO-15 SIM | 5.4 "Hg | 5 psi |
| 03A | 5-IA3-073013 | Modified TO-15 SIM | 4.4 "Hg | 5 psi |
| 05A | 11-IA2-072913 | Modified TO-15 SIM | 3.2 "Hg | 5 psi |
| 06A | 11-IA3-072913 | Modified TO-15 SIM | 3.2 "Hg | 5 psi |
| 08A | 11-IA1-072913 | Modified TO-15 SIM | 3.2 "Hg | 5 psi |
| 10A | 9-IA1-072913 | Modified TO-15 SIM | 3.2 "Hg | 5 psi |
| 11A | 7-IA2-072913 | Modified TO-15 SIM | 2.0 "Hg | 5 psi |
| 12A | 7-IA1-072913 | Modified TO-15 SIM | 4.2 "Hg | 5 psi |
| 13A | 9-IA2-072913 | Modified TO-15 SIM | 2.8 "Hg | 5 psi |
| 14A | 10-IA2-072913 | Modified TO-15 SIM | 3.4 "Hg | 5 psi |
| 15A | 10-CS1-072913 | Modified TO-15 SIM | 3.4 "Hg | 5 psi |
| 17A | 1-IA2-072913 | Modified TO-15 SIM | 4.0 "Hg | 5 psi |
| 18A | 1-IA1-072913 | Modified TO-15 SIM | 4.5 "Hg | 5 psi |
| 19A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 19B | Lab Blank | Modified TO-15 SIM | NA | NA |
| 20A | CCV | Modified TO-15 SIM | NA | NA |
| 20B | CCV | Modified TO-15 SIM | NA | NA |
| 21A | LCS | Modified TO-15 SIM | NA | NA |
| 21AA | LCS | Modified TO-15 SIM | NA | NA |
| 21B | LCS | Modified TO-15 SIM | NA | NA |
| 21BB | LCS | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 

DATE: 08/19/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1308172A

Fourteen 6 Liter Summa Canister (SIM Certified) samples were received on August 06, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request, the laboratory has reported estimated values for target compound 1,2-Dichloroethane that are below the Reporting Limit but greater than the Method Detection Limit. All the canisters used for this project have been certified to the Reporting Limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

Dilution was performed on sample 9-IA1-072913 due to the presence of high level non-target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 13-IA2-073013 | Date/Time Analyzed: | 8/13/13 09:23 PM |
| Lab ID: | 1308172A-01A | Dilution Factor: | 1.39 |
| Date/Time Collecte | 7/30/13 01:39 PM | Instrument/File name: | msdc.i / c081315sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0024 | 0.022 | 0.11 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0022 | 0.022 | 0.055 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.024 | 0.024 | 0.11 | 2.2 |
| Chloroethane | 75-00-3 | 0.010 | NA | 0.18 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0098 | 0.022 | 0.11 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.011 | 0.038 | 0.19 | 0.36 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.013 | 0.022 | 0.55 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0060 | 0.030 | 0.15 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0048 | 0.014 | 0.036 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 13-IA1-073013 | Date/Time Analyzed: | 8/13/13 09:59 PM |
| Lab ID: | 1308172A-02A | Dilution Factor: | 1.63 |
| Date/Time Collecte | 7/30/13 01:36 PM | Instrument/Filename: | msdc.i / c081316sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0028 | 0.026 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0026 | 0.026 | 0.065 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.028 | 0.028 | 0.13 | 0.57 |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.22 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.012 | 0.026 | 0.13 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.044 | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.016 | 0.026 | 0.65 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0071 | 0.035 | 0.18 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0056 | 0.017 | 0.042 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 5-IA3-073013 | Date/Time Analyzed: | 8/13/13 10:47 PM |
| Lab ID: | 1308172A-03A | Dilution Factor: | 1.57 |
| Date/Time Collecte | 7/30/13 10:14 AM | Instrument/File name: | msdc.i / c081317sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0025 | 0.025 | 0.062 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.027 | 0.027 | 0.13 | 0.15 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.21 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.025 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.042 | 0.21 | 0.81 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.025 | 0.62 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0068 | 0.034 | 0.17 | 0.68 |
| Vinyl Chloride | 75-01-4 | 0.0054 | 0.016 | 0.040 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 105 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 11-IA2-072913 | Date/Time Analyzed: | 8/14/13 06:00 AM |
| Lab ID: | 1308172A-05A | Dilution Factor: | 1.50 |
| Date/Time Collecte | 7/29/13 12:36 PM | Instrument/Filename: | msdc.i / c081318sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.026 | 0.12 | 0.54 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0065 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 95 |
| Toluene-d8 | 2037-26-5 | 70-130 | 105 |



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 11-IA3-072913 | Date/Time Analyzed: | 8/14/13 06:36 AM |
| Lab ID: | 1308172A-06A | Dilution Factor: | 1.50 |
| Date/Time Collecte | 7/29/13 12:38 PM | Instrument/Filename: | msdc.i / c081319sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.026 | 0.12 | 0.39 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | 0.29 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0065 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 11-IA1-072913 | Date/Time Analyzed: | 8/14/13 07:11 AM |
| Lab ID: | 1308172A-08A | Dilution Factor: | 1.50 |
| Date/Time Collecte | 7/29/13 12:34 PM | Instrument/Filename: | msdc.i / c081320sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.026 | 0.12 | 0.54 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | 0.46 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0065 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | 0.074 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 9-IA1-072913 | Date/Time Analyzed: | 8/14/13 07:59 AM |
| Lab ID: | 1308172A-10A | Dilution Factor: | 3.12 |
| Date/Time Collecte | 7/29/13 10:51 AM | Instrument/Filename: | msdc.i / c081321sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0054 | 0.050 | 0.25 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0049 | 0.049 | 0.12 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.053 | 0.053 | 0.25 | 0.47 |
| Chloroethane | 75-00-3 | 0.023 | NA | 0.41 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.022 | 0.049 | 0.25 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.026 | 0.085 | 0.42 | 1.1 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.030 | 0.049 | 1.2 | Not Detected |
| Trichloroethene | 79-01-6 | 0.014 | 0.067 | 0.34 | 1.3 |
| Vinyl Chloride | 75-01-4 | 0.011 | 0.032 | 0.080 | 0.083 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 93 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 7-IA2-072913 | Date/Time Analyzed: | 8/14/13 12:53 PM |
| Lab ID: | 1308172A-11A | Dilution Factor: | 1.44 |
| Date/Time Collecte | 7/29/13 10:05 AM | Instrument/Filename: | msdc.i / c081407sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0025 | 0.023 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0023 | 0.023 | 0.057 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.024 | 0.024 | 0.12 | 0.10 J |
| Chloroethane | 75-00-3 | 0.010 | NA | 0.19 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.023 | 0.11 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.039 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.023 | 0.57 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0063 | 0.031 | 0.15 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0050 | 0.015 | 0.037 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 7-IA1-072913 | Date/Time Analyzed: | 8/14/13 01:46 PM |
| Lab ID: | 1308172A-12A | Dilution Factor: | 1.56 |
| Date/Time Collecte | 7/29/13 10:04 AM | Instrument/Filename: | msdc.i / c081408sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0025 | 0.025 | 0.062 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.13 | 0.076 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.025 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.042 | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.025 | 0.62 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0068 | 0.034 | 0.17 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0054 | 0.016 | 0.040 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 9-IA2-072913 | Date/Time Analyzed: | 8/14/13 02:33 PM |
| Lab ID: | 1308172A-13A | Dilution Factor: | 1.48 |
| Date/Time Collecte | 7/29/13 10:43 AM | Instrument/Filename: | msdc.i / c081409sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0023 | 0.023 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.025 | 0.12 | 0.14 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.023 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.040 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.023 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0064 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0051 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 10-IA2-072913 | Date/Time Analyzed: | 8/14/13 03:25 PM |
| Lab ID: | 1308172A-14A | Dilution Factor: | 1.51 |
| Date/Time Collecte | 7/29/13 11:46 AM | Instrument/Filename: | msdc.i / c081410sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.060 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.33 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.60 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0066 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 10-CS1-072913 | Date/Time Analyzed: | 8/14/13 04:12 PM |
| Lab ID: | 1308172A-15A | Dilution Factor: | 1.51 |
| Date/Time Collecte | 7/29/13 11:48 AM | Instrument/Filename: | msdc.i / c081411sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.060 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.055 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.60 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0066 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 99 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 1-IA2-072913 | Date/Time Analyzed: | 8/14/13 05:36 PM |
| Lab ID: | 1308172A-17A | Dilution Factor: | 1.55 |
| Date/Time Collecte | 7/29/13 12:03 PM | Instrument/Filename: | msdc.i / c081413sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.061 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.074 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.042 | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.024 | 0.61 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0067 | 0.033 | 0.17 | 0.47 |
| Vinyl Chloride | 75-01-4 | 0.0053 | 0.016 | 0.040 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 1-IA1-072913 | Date/Time Analyzed: | 8/14/13 06:18 PM |
| Lab ID: | 1308172A-18A | Dilution Factor: | 1.58 |
| Date/Time Collecte | 7/29/13 12:00 PM | Instrument/File name: | msdc.i / c081414sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0028 | 0.026 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0025 | 0.025 | 0.063 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.027 | 0.027 | 0.13 | 0.17 |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.21 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.025 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.043 | 0.21 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.025 | 0.63 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0069 | 0.034 | 0.17 | 2.2 |
| Vinyl Chloride | 75-01-4 | 0.0054 | 0.016 | 0.040 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 111 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/13/13 01:05 PM |
| Lab ID: | 1308172A-19A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081306simc |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0017 | 0.016 | 0.081 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0016 | 0.016 | 0.040 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.017 | 0.017 | 0.081 | Not Detected |
| Chloroethane | 75-00-3 | 0.0073 | NA | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0070 | 0.016 | 0.079 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.0082 | 0.027 | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.0095 | 0.016 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0044 | 0.022 | 0.11 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0034 | 0.010 | 0.026 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/14/13 12:03 PM |
| Lab ID: | 1308172A-19B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081406sima |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0017 | 0.016 | 0.081 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0016 | 0.016 | 0.040 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.017 | 0.017 | 0.081 | Not Detected |
| Chloroethane | 75-00-3 | 0.0073 | NA | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0070 | 0.016 | 0.079 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.0082 | 0.027 | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.0095 | 0.016 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0044 | 0.022 | 0.11 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0034 | 0.010 | 0.026 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/13/13 09:17 AM |
| Lab ID: | 1308172A-20A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081302sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 96 |
| 1,2-Dichloroethane | 107-06-2 | 102 |
| Chloroethane | 75-00-3 | 97 |
| cis-1,2-Dichloroethene | 156-59-2 | 92 |
| Tetrachloroethene | 127-18-4 | 101 |
| trans-1,2-Dichloroethene | 156-60-5 | 95 |
| Trichloroethene | 79-01-6 | 95 |
| Vinyl Chloride | 75-01-4 | 90 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/14/13 08:59 AM |
| Lab ID: | 1308172A-20B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081402sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 100 |
| 1,2-Dichloroethane | 107-06-2 | 103 |
| Chloroethane | 75-00-3 | 97 |
| cis-1,2-Dichloroethene | 156-59-2 | 92 |
| Tetrachloroethene | 127-18-4 | 99 |
| trans-1,2-Dichloroethene | 156-60-5 | 97 |
| Trichloroethene | 79-01-6 | 94 |
| Vinyl Chloride | 75-01-4 | 86 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/13/13 10:07 AM |
| Lab ID: | 1308172A-21A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081303sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 107 |
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Chloroethane | 75-00-3 | 100 |
| cis-1,2-Dichloroethene | 156-59-2 | 95 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 110 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 92 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/13/13 10:57 AM |
| Lab ID: | 1308172A-21AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081304sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 107 |
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Chloroethane | 75-00-3 | 98 |
| cis-1,2-Dichloroethene | 156-59-2 | 94 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 109 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 91 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/14/13 09:41 AM |
| Lab ID: | 1308172A-21B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081403sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 109 |
| 1,2-Dichloroethane | 107-06-2 | 106 |
| Chloroethane | 75-00-3 | 102 |
| cis-1,2-Dichloroethene | 156-59-2 | 95 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 112 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 90 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/14/13 10:23 AM |
| Lab ID: | 1308172A-21BB | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081404sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 110 |
| 1,2-Dichloroethane | 107-06-2 | 106 |
| Chloroethane | 75-00-3 | 103 |
| cis-1,2-Dichloroethene | 156-59-2 | 95 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 112 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 91 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 111 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager B. H. Beadie
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@mafi.foster.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-541-5204 Fax 503-541-5204

| | | |
|----------------------------------|---|--|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | | |
| Project # <u>8006.31.01</u> | | |
| Project Name <u>Park Laundry</u> | | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|---------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| | 11-552-073113 | 35649 | 7/31/13 | 12:52 | TO-15 SIM Sec Notes | -29 | -5 | | |
| | 11-551-073113 | 37713 | 7/31/13 | 13:39 | | -30 | -5 | | |
| 01A | 13-IA2-073013 | 33376 | 7/30/13 | 13:39 | | -30 | -2.5 | | |
| 02A | 13-IA1-073013 | 1588 | 7/30/13 | 13:36 | | -30 | -5.5 | | |
| 03A | 5-IA3-073013 | 4214 | 7/30/13 | 10:14 | | -29 | -5 | | |
| | 0A3-073013 | 12957 | 7/30/13 | 13:22 | Hold | -30 | -5 | | |
| 05A | 11-IA2-072913 | 33909 | 7/29/13 | 12:36 | TO-15 SIM Sec Notes | -30 | -3 | | |
| 06A | 11-IA3-072913 | 11026 | 7/29/13 | 12:38 | | -29 | -3.5 | | |
| | 0A1-072913 | 5361 | 7/29/13 | 11:32 | Hold | -30 | -5 | | |
| 08A | 11-IA1-072913 | 5365 | 7/29/13 | 12:34 | TO-15 SIM Sec Notes | -28 | -4 | | |

| | | |
|---|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>08/06/13 15:50</u> | Notes: <u>See attachment for list of compounds and reporting limits.</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|-------------------------|------------------|---------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>UPS</u> | Air Bill # _____ | Temp (°C) <u>NA</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1305122</u> |
|--------------|-------------------------|------------------|---------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (818) 704-6000



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@mfa.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503 501-5204 Fax

| | | |
|----------------------------------|---|--------------------------------|
| Project Info: | Turn Around Time: | Lab Use Only |
| | <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | Pressurized by: |
| P.O. # | | Date: |
| Project # <u>8006.31.01</u> | | Pressurization Gas: |
| Project Name <u>Park Laundry</u> | | <u>N₂</u> <u>He</u> |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| | 0A2-072913 | 32109 | 7/29/13 | 11:25 | Hold | -29.5 | -5 | | |
| 10A | 9-IA1-072913 | 12938 | 7/29/13 | 10:51 | TO-15 SIM <small>See Notes</small> | -28 | -5 | | |
| 11A | 7-IA2-072913 | 5086 | 7/29/13 | 10:05 | | -29 | -1 | | |
| 12A | 7-IA1-072913 | 14113 | 7/29/13 | 10:04 | | -30 | -5 | | |
| 13A | 9-IA2-072913 | 13439 | 7/29/13 | 10:43 | | -30 | -4 | | |
| 14A | 10-IA2-072913 | 1565 | 7/29/13 | 11:46 | | -30 | -4.5 | | |
| 15A | 10-CS1-072913 | 12958 | 7/29/13 | 11:48 | | -30 | -4 | | |
| | 0A3-072913 | 10988 | 7/29/13 | 11:17 | Hold | -29 | -5 | | |
| 17A | 1-IA2-072913 | 10741 | 7/29/13 | 12:03 | TO-15 SIM <small>See Notes</small> | -30 | -5 | | |
| 18A | 1-IA1-072913 | 10978 | 7/29/13 | 12:00 | | -30 | -5.5 | | |

| | | |
|---|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 11:00</u> | Notes: <u>See attachment for list of compounds and reporting limits.</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|--------------|--------------------|------------|-----------|-------------|-----------------------|----------------|
| | <u>[Signature]</u> | | <u>NA</u> | <u>Good</u> | Yes No <u>None</u> | <u>1308172</u> |

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1308172

Attachment

MFA Project #8006.31.01

Here is the list of analytes with our screening values.

For all of the listed analytes, please ensure that the reported concentrations on the issued report(s) are below the screening values listed below. In most cases, the MRL will be below the screening value so the MRL should be reported. However, some samples may need the MDL reported instead, in order to attain a reported value below the screening value. Please use the MRL as the default reported value, unless the MDL is necessary.

Please assess the need to use the MRL or MDL on a sample by sample (and analyte by analyte) basis.

| Analyte | Air Screening Values ($\mu\text{g}/\text{m}^3$) for 6-liter canisters | Soil Gas Screening Values ($\mu\text{g}/\text{m}^3$) for 1-liter canisters |
|--------------------------|---|--|
| 1,1-dichloroethane | 320 | 3200 |
| 1,1-dichloroethene | 91 | 910 |
| 1,2-dichloroethane | 0.096 | 0.96 |
| Chloroethane | 3 | 30 |
| Cis-1,2-dichloroethene | 16 | 160 |
| Tetrachloroethene | 9.6 | 96 |
| Trans-1,2-dichloroethene | 32 | 320 |
| Trichloroethene | 0.37 | 3.7 |
| Vinyl chloride | 0.28 | 2.8 |
| Helium | Please Report to the MRL | Please Report to the MRL |

Please give me a call if you have any questions regarding this request.

Regards,


Thomas Ashton
503-501-5204

8/22/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01
Workorder #: 1308172B

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 8/6/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1308172B

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01 Park Laundry |
| DATE RECEIVED: | 08/06/2013 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 08/22/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|-------------|--------------------|-------------------------------|---------------------------|
| 04A | OA3-073013 | Modified TO-15 SIM | 4.8 "Hg | 5 psi |
| 16A | OA3-072913 | Modified TO-15 SIM | 3.0 "Hg | 5 psi |
| 17A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 18A | CCV | Modified TO-15 SIM | NA | NA |
| 19A | LCS | Modified TO-15 SIM | NA | NA |
| 19AA | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 
 Technical Director

DATE: 08/22/13

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-12-5, UT NELAP CA009332012-3, VA NELAP - 460197, WA NELAP - C935
 Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
 Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Inc. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 9563
 (916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020



LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1308172B

Two 6 Liter Summa Canister (SIM Certified) samples were received on August 06, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | +/- 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

Samples OA3-073013 and OA3-072913 were removed from "Hold" and placed on "Active" status per client request on 8/14/2013 .

Analytical Notes

As per project specific client request the laboratory has reported estimated values for 1,2-Dichloroethane hits that are below the Reporting Limit but greater than the Method Detection Limit. All The canisters used for this project have been certified to the Reporting Limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | OA3-073013 | Date/Time Analyzed: | 8/15/13 02:43 PM |
| Lab ID: | 1308172B-04A | Dilution Factor: | 1.60 |
| Date/Time Collecte | 7/30/13 01:22 PM | Instrument/Filename: | msdc.i / c081509sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0028 | 0.026 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0025 | 0.025 | 0.063 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.027 | 0.027 | 0.13 | 0.061 J |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.21 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.025 | 0.13 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.043 | 0.22 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.025 | 0.63 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0070 | 0.034 | 0.17 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0055 | 0.016 | 0.041 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | OA3-072913 | Date/Time Analyzed: | 8/15/13 04:08 PM |
| Lab ID: | 1308172B-16A | Dilution Factor: | 1.49 |
| Date/Time Collecte | 7/29/13 11:17 AM | Instrument/File name: | msdc.i / c081511sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.025 | 0.12 | 0.16 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.040 | 0.20 | 0.63 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0065 | 0.032 | 0.16 | 0.26 |
| Vinyl Chloride | 75-01-4 | 0.0051 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 95 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/15/13 12:04 PM |
| Lab ID: | 1308172B-17A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081506csim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0017 | 0.016 | 0.081 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0016 | 0.016 | 0.040 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.017 | 0.017 | 0.081 | Not Detected |
| Chloroethane | 75-00-3 | 0.0073 | NA | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0070 | 0.016 | 0.079 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.0082 | 0.027 | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.0095 | 0.016 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0044 | 0.022 | 0.11 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0034 | 0.010 | 0.026 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/15/13 09:12 AM |
| Lab ID: | 1308172B-18A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081502sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 97 |
| 1,2-Dichloroethane | 107-06-2 | 102 |
| Chloroethane | 75-00-3 | 96 |
| cis-1,2-Dichloroethene | 156-59-2 | 92 |
| Tetrachloroethene | 127-18-4 | 98 |
| trans-1,2-Dichloroethene | 156-60-5 | 97 |
| Trichloroethene | 79-01-6 | 94 |
| Vinyl Chloride | 75-01-4 | 88 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 94 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/15/13 09:53 AM |
| Lab ID: | 1308172B-19A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081503sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 98 |
| 1,1-Dichloroethene | 75-35-4 | 108 |
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Chloroethane | 75-00-3 | 102 |
| cis-1,2-Dichloroethene | 156-59-2 | 94 |
| Tetrachloroethene | 127-18-4 | 98 |
| trans-1,2-Dichloroethene | 156-60-5 | 110 |
| Trichloroethene | 79-01-6 | 95 |
| Vinyl Chloride | 75-01-4 | 89 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 96 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/15/13 10:36 AM |
| Lab ID: | 1308172B-19AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081504sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 98 |
| 1,1-Dichloroethene | 75-35-4 | 108 |
| 1,2-Dichloroethane | 107-06-2 | 105 |
| Chloroethane | 75-00-3 | 100 |
| cis-1,2-Dichloroethene | 156-59-2 | 93 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 110 |
| Trichloroethene | 79-01-6 | 95 |
| Vinyl Chloride | 75-01-4 | 88 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 109 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager B.H. Beadle
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@mwfoster.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-501-5204 Fax _____

| | | | |
|----------------------------------|-----------------------------|--|---|
| Project Info: | | Turn Around Time: | <i>Lab Use Only</i> Pressurized by: Date: Pressurization Gas: N ₂ He |
| P.O. # _____ | Project # <u>8006.31.01</u> | | |
| Project Name <u>Park Laundry</u> | | <input checked="" type="checkbox"/> Normal | |
| | | <input type="checkbox"/> Rush | |
| | | <small>specify</small> | |

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|------------|------------------------------|-------|--------------------|--------------------|----------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| | 11-552-073113 | 35644 | 7/31/13 | 12:52 | TO-15 SIM <i>See notes</i> | -29 | -5 | | |
| | 11-551-073113 | 37713 | 7/31/13 | 13:39 | | -30 | -5 | | |
| | 13-IA2-073013 | 33376 | 7/30/13 | 13:59 | | -30 | -2.5 | | |
| | 13-IA1-073013 | 1588 | 7/30/13 | 13:36 | | -30 | -5.5 | | |
| | 5-IA3-073013 | 4214 | 7/30/13 | 10:14 | | -29 | -5 | | |
| <u>04A</u> | 0A3-073013 | 12957 | 7/30/13 | 13:22 | Hold | -30 | -5 | | |
| | 11-IA2-072913 | 33909 | 7/29/13 | 12:36 | TO-15 SIM <i>See notes</i> | -30 | -3 | | |
| | 11-IA3-072913 | 11026 | 7/29/13 | 12:38 | | -29 | -3.5 | | |
| <u>04A</u> | 0A1-072913 | 5361 | 7/29/13 | 11:32 | Hold | -30 | -5 | | |
| <u>04A</u> | 11-IA1-072913 | 5365 | 7/29/13 | 12:34 | TO-15 SIM <i>See notes</i> | -28 | -4 | | |

| | |
|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 11:00</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
See attachment for list of compounds and reporting limits.

| | | | | | | |
|---------------------|-------------------------|------------------|---------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>VPS</u> | Air Bill # _____ | Temp (°C) <u>NA</u> | Condition <u>good</u> | Custody Seals Intact? <u>Yes</u> <u>No</u> <u>None</u> | Work Order # <u>1308172</u> |
|---------------------|-------------------------|------------------|---------------------|-----------------------|--|-----------------------------|

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CHAIN-OF-CUSTODY RECORD

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie
 Collected by: (Print and Sign) Thomas Ashton
 Company MEA Email tash@mea.com
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-501-5204 Fax _____

Project Info:
 P.O. # _____
 Project # 8006.31.01
 Project Name Park Laundry

Turn Around Time:
 Normal
 Rush
specify
 Lab Use Only
 Pressurized by:
 Date:
 Pressurization Gas:
 N₂ He

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------------|------------------------------|-------|--------------------|--------------------|------------------------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psl) |
| 8TA | 0A2-072913 | 32109 | 7/29/13 | 11:25 | Hold | -29.5 | -5 | | |
| | 9-IA1-072913 | 12938 | 7/29/13 | 10:57 | TO-15 SIM <small>See notes</small> | -28 | -5 | | |
| | 7-IA2-072913 | 5086 | 7/29/13 | 10:05 | | -29 | -1 | | |
| | 7-IA1-072913 | 14113 | 7/29/13 | 10:04 | | -30 | -5 | | |
| | 9-IA2-072913 | 13439 | 7/29/13 | 10:43 | | -30 | -4 | | |
| | 10-IA2-072913 | 1565 | 7/29/13 | 11:46 | | -30 | -4.5 | | |
| | 10-C51-072913 | 12958 | 7/29/13 | 11:48 | | -30 | -4 | | |
| 16A | 0A3-072913 | 10988 | 7/29/13 | 11:17 | Hold | -29 | -5 | | |
| | 1-IA2-072913 | 10791 | 7/29/13 | 12:03 | TO-15 SIM <small>See notes</small> | -30 | -5 | | |
| | 1-IA1-072913 | 10978 | 7/29/13 | 12:00 | | -30 | -5.5 | | |

| | |
|---|--|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>ATL 08/06/13 1100</u> |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ |

Notes:
 See attachment for list of compounds and reporting limits.

| | | | | | | |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>CPS</u> | Air Bill # _____ | Temp (°C) <u>N/A</u> | Condition <u>Good</u> | Custody Seals Intact? Yes No <u>None</u> | Work Order # <u>1308172</u> |
|--------------|-------------------------|------------------|----------------------|-----------------------|--|-----------------------------|

WEST PRINTING & GRAPHICS (916) 734-6000

1308172

Attachment

MFA Project #8006.31.01

Here is the list of analytes with our screening values.


For all of the listed analytes, please ensure that the reported concentrations on the issued report(s) are below the screening values listed below. In most cases, the MRL will be below the screening value so the MRL should be reported. However, some samples may need the MDL reported instead, in order to attain a reported value below the screening value. Please use the MRL as the default reported value, unless the MDL is necessary.

Please assess the need to use the MRL or MDL on a sample by sample (and analyte by analyte) basis.

| Analyte | Air Screening Values ($\mu\text{g}/\text{m}^3$) for 6-liter canisters | Soil Gas Screening Values ($\mu\text{g}/\text{m}^3$) for 1-liter canisters |
|--------------------------|---|--|
| 1,1-dichloroethane | 320 | 3200 |
| 1,1-dichloroethene | 91 | 910 |
| 1,2-dichloroethane | 0.096 | 0.96 |
| Chloroethane | 3 | 30 |
| Cis-1,2-dichloroethene | 16 | 160 |
| Tetrachloroethene | 9.6 | 96 |
| Trans-1,2-dichloroethene | 32 | 320 |
| Trichloroethene | 0.37 | 3.7 |
| Vinyl chloride | 0.28 | 2.8 |
| Helium | Please Report to the MRL | Please Report to the MRL |

Please give me a call if you have any questions regarding this request.

Regards,


Thomas Ashton
503-501-5204

8/19/2013

Mr. Thomas Ashton
Maul Foster and Alongi Inc.
2001 NW 19th Ave
Suite 200
Portland OR 97209

Project Name: Park Laundry
Project #: 8006.31.01
Workorder #: 1308173A

Dear Mr. Thomas Ashton

The following report includes the data for the above referenced project for sample(s) received on 8/6/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 SIM are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kelly Buettner at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1308173A

Work Order Summary

| | | | |
|------------------------|---|------------------|---|
| CLIENT: | Mr. Thomas Ashton Maul Foster and Alongi Inc. 2001 NW 19th Ave Suite 200 Portland, OR 97209 | BILL TO: | Accounts Payable Maul Foster and Alongi Inc. 400 E. Mill Plain Blvd Suite 400 Vancouver, WA 98660 |
| PHONE: | 971-544-2139 | P.O. # | |
| FAX: | 971-544-2140 | PROJECT # | 8006.31.01 Park Laundry |
| DATE RECEIVED: | 08/06/2013 | CONTACT: | Kelly Buettner |
| DATE COMPLETED: | 08/19/2013 | | |

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u> | <u>RECEIPT VAC./PRES.</u> | <u>FINAL PRESSURE</u> |
|-------------------|---------------|--------------------|-------------------------------|---------------------------|
| 01A | 10-IA1-072913 | Modified TO-15 SIM | 2.8 "Hg | 4.9 psi |
| 02A | 1-IA3-072913 | Modified TO-15 SIM | 3.1 "Hg | 4.9 psi |
| 03A | 27-IA1-073013 | Modified TO-15 SIM | 3.7 "Hg | 5 psi |
| 04A | 27-IA2-073013 | Modified TO-15 SIM | 4.9 "Hg | 5 psi |
| 05A | 28-IA1-073013 | Modified TO-15 SIM | 6.5 "Hg | 5 psi |
| 07A | 27-CS1-073013 | Modified TO-15 SIM | 3.3 "Hg | 4.9 psi |
| 08A | 28-IA2-073013 | Modified TO-15 SIM | 4.9 "Hg | 5.1 psi |
| 09A | 28-IA3-073013 | Modified TO-15 SIM | 3.5 "Hg | 4.9 psi |
| 12A | 5-IA2-073013 | Modified TO-15 SIM | 4.1 "Hg | 4.8 psi |
| 13A | 5-IA1-073013 | Modified TO-15 SIM | 3.7 "Hg | 5 psi |
| 14A | Lab Blank | Modified TO-15 SIM | NA | NA |
| 14B | Lab Blank | Modified TO-15 SIM | NA | NA |
| 15A | CCV | Modified TO-15 SIM | NA | NA |
| 15B | CCV | Modified TO-15 SIM | NA | NA |
| 16A | LCS | Modified TO-15 SIM | NA | NA |
| 16AA | LCSD | Modified TO-15 SIM | NA | NA |
| 16B | LCS | Modified TO-15 SIM | NA | NA |
| 16BB | LCSD | Modified TO-15 SIM | NA | NA |

CERTIFIED BY: 

DATE: 08/19/13

Technical Director

Certification numbers: AZ Licensure AZ0775, CA NELAP - 12282CA, NY NELAP - 11291, TX NELAP - T104704434-12-4, UT NELAP CA009332012-3, WA NELAP - C935

Name of Accrediting Agency: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)

Accreditation number: CA300005, Effective date: 10/18/2012, Expiration date: 10/17/2013.

Eurofins Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 SIM
Maul Foster and Alongi Inc.
Workorder# 1308173A

Ten 6 Liter Summa Canister (SIM Certified) samples were received on August 06, 2013. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the SIM acquisition mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

| <i>Requirement</i> | <i>TO-15</i> | <i>ATL Modifications</i> |
|-------------------------------|--|---|
| ICAL %RSD acceptance criteria | $\leq 30\%$ RSD with 2 compounds allowed out to <math>< 40\%</math> RSD | Project specific; default criteria is $\leq 30\%$ RSD with 10% of compounds allowed out to <math>< 40\%</math> RSD |
| Daily Calibration | + - 30% Difference | Project specific; default criteria is $\leq 30\%$ Difference with 10% of compounds allowed out up to $\leq 40\%$; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

As per project specific client request, the laboratory has reported estimated values for target compound 1,2-Dichloroethane that are below the Reporting Limit but greater than the Method Detection Limit. All the canisters used for this project have been certified to the Reporting Limit for the target analytes included in this workorder. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 10-IA1-072913 | Date/Time Analyzed: | 8/12/13 10:08 PM |
| Lab ID: | 1308173A-01A | Dilution Factor: | 1.47 |
| Date/Time Collecte | 7/29/13 11:46 AM | Instrument/File name: | msdc.i / c081216sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0023 | 0.023 | 0.058 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.025 | 0.12 | 0.37 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.19 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.023 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.040 | 0.20 | 0.25 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.023 | 0.58 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0064 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0051 | 0.015 | 0.038 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 95 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 1-IA3-072913 | Date/Time Analyzed: | 8/12/13 10:50 PM |
| Lab ID: | 1308173A-02A | Dilution Factor: | 1.48 |
| Date/Time Collecte | 7/29/13 12:04 PM | Instrument/Filename: | msdc.i / c081217sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0023 | 0.023 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.025 | 0.12 | 0.069 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.023 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.040 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.023 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0064 | 0.032 | 0.16 | 0.29 |
| Vinyl Chloride | 75-01-4 | 0.0051 | 0.015 | 0.038 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 105 |



MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 27-IA1-073013 | Date/Time Analyzed: | 8/13/13 05:57 AM |
| Lab ID: | 1308173A-03A | Dilution Factor: | 1.53 |
| Date/Time Collecte | 7/30/13 10:52 AM | Instrument/File name: | msdc.i / c081218sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.061 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 2.1 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.042 | 0.21 | 1.1 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.61 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0067 | 0.033 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0053 | 0.016 | 0.039 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 103 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 27-IA2-073013 | Date/Time Analyzed: | 8/13/13 07:03 AM |
| Lab ID: | 1308173A-04A | Dilution Factor: | 1.60 |
| Date/Time Collecte | 7/30/13 10:51 AM | Instrument/File name: | msdc.i / c081219sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0028 | 0.026 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0025 | 0.025 | 0.063 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.027 | 0.027 | 0.13 | 2.6 |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.21 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.025 | 0.13 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.043 | 0.22 | 1.2 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.025 | 0.63 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0070 | 0.034 | 0.17 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0055 | 0.016 | 0.041 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 104 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 28-IA1-073013 | Date/Time Analyzed: | 8/13/13 07:57 AM |
| Lab ID: | 1308173A-05A | Dilution Factor: | 1.71 |
| Date/Time Collecte | 7/30/13 12:01 PM | Instrument/File name: | msdc.i / c081220sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0030 | 0.028 | 0.14 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0027 | 0.027 | 0.068 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.029 | 0.029 | 0.14 | 0.32 |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.22 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.012 | 0.027 | 0.14 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.014 | 0.046 | 0.23 | 0.85 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.016 | 0.027 | 0.68 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0074 | 0.037 | 0.18 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0059 | 0.017 | 0.044 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 94 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 27-CS1-073013 | Date/Time Analyzed: | 8/13/13 05:18 PM |
| Lab ID: | 1308173A-07A | Dilution Factor: | 1.50 |
| Date/Time Collecte | 7/30/13 10:52 AM | Instrument/Filename: | msdc.i / c081310sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.059 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.025 | 0.026 | 0.12 | 0.093 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.010 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.59 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0065 | 0.032 | 0.16 | 0.17 |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 28-IA2-073013 | Date/Time Analyzed: | 8/13/13 06:00 PM |
| Lab ID: | 1308173A-08A | Dilution Factor: | 1.61 |
| Date/Time Collecte | 7/30/13 12:03 PM | Instrument/File name: | msdc.i / c081311sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0028 | 0.026 | 0.13 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0026 | 0.026 | 0.064 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.027 | 0.027 | 0.13 | 0.82 |
| Chloroethane | 75-00-3 | 0.012 | NA | 0.21 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.026 | 0.13 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.044 | 0.22 | 0.30 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.026 | 0.64 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0070 | 0.035 | 0.17 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0056 | 0.016 | 0.041 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 28-IA3-073013 | Date/Time Analyzed: | 8/13/13 06:46 PM |
| Lab ID: | 1308173A-09A | Dilution Factor: | 1.51 |
| Date/Time Collecte | 7/30/13 12:06 PM | Instrument/Filename: | msdc.i / c081312sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0026 | 0.024 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.060 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.51 |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.041 | 0.20 | 0.27 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.60 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0066 | 0.032 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0052 | 0.015 | 0.038 | 0.043 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|-----------------------------|---------------------|
| Client ID: | 5-IA2-073013 | Date/Time Analyzed: | 8/13/13 07:22 PM |
| Lab ID: | 1308173A-12A | Dilution Factor: | 1.54 |
| Date/Time Collecte | 7/30/13 10:07 AM | Instrument/Filename: | msdc.i / c081313sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.061 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.081 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.013 | 0.042 | 0.21 | 0.52 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.015 | 0.024 | 0.61 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0067 | 0.033 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0053 | 0.016 | 0.039 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 98 |
| Toluene-d8 | 2037-26-5 | 70-130 | 104 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|--|------------------------------|---------------------|
| Client ID: | 5-IA1-073013 | Date/Time Analyzed: | 8/13/13 08:39 PM |
| Lab ID: | 1308173A-13A | Dilution Factor: | 1.53 |
| Date/Time Collecte | 7/30/13 10:18 AM | Instrument/File name: | msdc.i / c081314sim |
| Media: | 6 Liter Summa Canister (SIM Certified) | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0027 | 0.025 | 0.12 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0024 | 0.024 | 0.061 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.026 | 0.026 | 0.12 | 0.064 J |
| Chloroethane | 75-00-3 | 0.011 | NA | 0.20 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.011 | 0.024 | 0.12 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.012 | 0.042 | 0.21 | 0.44 |
| trans-1,2-Dichloroethene | 156-60-5 | 0.014 | 0.024 | 0.61 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0067 | 0.033 | 0.16 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0053 | 0.016 | 0.039 | Not Detected |

J = Estimated value.

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 97 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/12/13 12:32 PM |
| Lab ID: | 1308173A-14A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081206sima |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0017 | 0.016 | 0.081 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0016 | 0.016 | 0.040 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.017 | 0.017 | 0.081 | Not Detected |
| Chloroethane | 75-00-3 | 0.0073 | NA | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0070 | 0.016 | 0.079 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.0082 | 0.027 | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.0095 | 0.016 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0044 | 0.022 | 0.11 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0034 | 0.010 | 0.026 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 102 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 102 |



MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | Lab Blank | Date/Time Analyzed: | 8/13/13 01:05 PM |
| Lab ID: | 1308173A-14B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081306simc |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | MDL (ug/m3) | LOD (ug/m3) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|--------------------------|----------|----------------|----------------|-----------------------|-------------------|
| 1,1-Dichloroethane | 75-34-3 | 0.0017 | 0.016 | 0.081 | Not Detected |
| 1,1-Dichloroethene | 75-35-4 | 0.0016 | 0.016 | 0.040 | Not Detected |
| 1,2-Dichloroethane | 107-06-2 | 0.017 | 0.017 | 0.081 | Not Detected |
| Chloroethane | 75-00-3 | 0.0073 | NA | 0.13 | Not Detected |
| cis-1,2-Dichloroethene | 156-59-2 | 0.0070 | 0.016 | 0.079 | Not Detected |
| Tetrachloroethene | 127-18-4 | 0.0082 | 0.027 | 0.14 | Not Detected |
| trans-1,2-Dichloroethene | 156-60-5 | 0.0095 | 0.016 | 0.40 | Not Detected |
| Trichloroethene | 79-01-6 | 0.0044 | 0.022 | 0.11 | Not Detected |
| Vinyl Chloride | 75-01-4 | 0.0034 | 0.010 | 0.026 | Not Detected |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 105 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 96 |
| Toluene-d8 | 2037-26-5 | 70-130 | 103 |

MODIFIED EPA METHOD TO-15 GC/MS SIM

Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/12/13 09:09 AM |
| Lab ID: | 1308173A-15A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081202sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 97 |
| 1,1-Dichloroethene | 75-35-4 | 95 |
| 1,2-Dichloroethane | 107-06-2 | 100 |
| Chloroethane | 75-00-3 | 97 |
| cis-1,2-Dichloroethene | 156-59-2 | 92 |
| Tetrachloroethene | 127-18-4 | 106 |
| trans-1,2-Dichloroethene | 156-60-5 | 95 |
| Trichloroethene | 79-01-6 | 98 |
| Vinyl Chloride | 75-01-4 | 89 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 99 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 103 |
| Toluene-d8 | 2037-26-5 | 70-130 | 91 |



Air Toxics

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | CCV | Date/Time Analyzed: | 8/13/13 09:17 AM |
| Lab ID: | 1308173A-15B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081302sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 96 |
| 1,2-Dichloroethane | 107-06-2 | 102 |
| Chloroethane | 75-00-3 | 97 |
| cis-1,2-Dichloroethene | 156-59-2 | 92 |
| Tetrachloroethene | 127-18-4 | 101 |
| trans-1,2-Dichloroethene | 156-60-5 | 95 |
| Trichloroethene | 79-01-6 | 95 |
| Vinyl Chloride | 75-01-4 | 90 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 106 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 105 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|----------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/12/13 09:57 AM |
| Lab ID: | 1308173A-16A | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081203sima |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 105 |
| 1,2-Dichloroethane | 107-06-2 | 101 |
| Chloroethane | 75-00-3 | 100 |
| cis-1,2-Dichloroethene | 156-59-2 | 94 |
| Tetrachloroethene | 127-18-4 | 104 |
| trans-1,2-Dichloroethene | 156-60-5 | 110 |
| Trichloroethene | 79-01-6 | 97 |
| Vinyl Chloride | 75-01-4 | 92 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 103 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/12/13 10:46 AM |
| Lab ID: | 1308173A-16AA | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081204sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 99 |
| 1,1-Dichloroethene | 75-35-4 | 107 |
| 1,2-Dichloroethane | 107-06-2 | 103 |
| Chloroethane | 75-00-3 | 104 |
| cis-1,2-Dichloroethene | 156-59-2 | 95 |
| Tetrachloroethene | 127-18-4 | 102 |
| trans-1,2-Dichloroethene | 156-60-5 | 112 |
| Trichloroethene | 79-01-6 | 98 |
| Vinyl Chloride | 75-01-4 | 93 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 103 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 112 |
| Toluene-d8 | 2037-26-5 | 70-130 | 95 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCS | Date/Time Analyzed: | 8/13/13 10:07 AM |
| Lab ID: | 1308173A-16B | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081303sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 107 |
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Chloroethane | 75-00-3 | 100 |
| cis-1,2-Dichloroethene | 156-59-2 | 95 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 110 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 92 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 108 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 110 |
| Toluene-d8 | 2037-26-5 | 70-130 | 93 |

* % Recovery is calculated using unrounded analytical results.

MODIFIED EPA METHOD TO-15 GC/MS SIM
Park Laundry

| | | | |
|---------------------------|---------------------|-----------------------------|---------------------|
| Client ID: | LCSD | Date/Time Analyzed: | 8/13/13 10:57 AM |
| Lab ID: | 1308173A-16BB | Dilution Factor: | 1.00 |
| Date/Time Collecte | NA - Not Applicable | Instrument/Filename: | msdc.i / c081304sim |
| Media: | NA - Not Applicable | | |

| Compound | CAS# | %Recovery |
|--------------------------|----------|-----------|
| 1,1-Dichloroethane | 75-34-3 | 100 |
| 1,1-Dichloroethene | 75-35-4 | 107 |
| 1,2-Dichloroethane | 107-06-2 | 104 |
| Chloroethane | 75-00-3 | 98 |
| cis-1,2-Dichloroethene | 156-59-2 | 94 |
| Tetrachloroethene | 127-18-4 | 100 |
| trans-1,2-Dichloroethene | 156-60-5 | 109 |
| Trichloroethene | 79-01-6 | 96 |
| Vinyl Chloride | 75-01-4 | 91 |

| Surrogates | CAS# | Limits | %Recovery |
|-----------------------|------------|--------|-----------|
| 1,2-Dichloroethane-d4 | 17060-07-0 | 70-130 | 107 |
| 4-Bromofluorobenzene | 460-00-4 | 70-130 | 108 |
| Toluene-d8 | 2037-26-5 | 70-130 | 92 |

* % Recovery is calculated using unrounded analytical results.



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page 5 of 6

Project Manager Bill Beadie
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email _____
 Address 2001 NW 19th Ave City Portland State OR Zip 97209
 Phone 503-501-5204 Fax _____

| | | |
|---|---|---|
| Project Info: P.O. # _____ Project # <u>8006.31.01</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | <small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: _____ N ₂ He |
|---|---|---|

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|----------|------------------------------|-------|--------------------|--------------------|---------------------|--------------------------|-------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| 01A | 10-IA1-072913 | 34749 | 7/29/13 | 11:46 | TD-15 SIM see notes | -30 | -5 | | |
| 02A | 1-IA3-072913 | 5664 | 7/29/13 | 12:04 | | -29.5 | -4 | | |
| 03A | 27-IA1-073013 | 9421 | 7/30/13 | 10:52 | | -30 | -5 | | |
| 04A | 27-IA2-073013 | 1568 | 7/30/13 | 10:51 | | -28 | -4 | | |
| 05A | 28-IA1-073013 | 21009 | 7/30/13 | 12:01 | | -30 | -4 | | |
| 06A | 0A1-073013 | 34496 | 7/30/13 | 13:05 | | HOLD | -30 | -5 | |
| 07A | 27-CS1-073013 | 14869 | 7/30/13 | 10:52 | TD-15 SIM see notes | -29.5 | -3.5 | | |
| 08A | 28-IA2-073013 | 5667 | 7/30/13 | 12:03 | | -30 | -4.5 | | |
| 09A | 28-IA3-073013 | 9418 | 7/30/13 | 12:06 | | -30 | -4 | | |
| 10A | 7-IA2-073013 | 5578 | 7/30/13 | 13:52 | HOLD | -29 | -5 | | |

| | | |
|---|---|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>08/06/13 11:00</u> | Notes: See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

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|--------------|--------------|------------|-----------|-------------|-----------------------|----------------|
| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
| | <u>URS</u> | | <u>NA</u> | <u>good</u> | Yes No <u>None</u> | <u>1308173</u> |



CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Bill Beadie
 Collected by: (Print and Sign) Thomas Ashton
 Company MFA Email tashton@maulfactory.com
 Address 2001 New Fifth Ave. suite 200 City Portland State OR Zip 97209
 Phone 503-501-5204 Fax _____

| | | |
|---|---|---|
| Project Info: P.O. # _____ Project # <u>8006.31.01</u> Project Name <u>Park Laundry</u> | Turn Around Time: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Rush <small>specify</small> | <small>Lab Use Only</small> Pressurized by: _____ Date: _____ Pressurization Gas: <u>N₂</u> <u>He</u> |
|---|---|---|

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum | | | |
|------------|------------------------------|--------------|--------------------|--------------------|----------------------------|--------------------------|-------------|---------|-------------|
| | | | | | | Initial | Final | Receipt | Final (psi) |
| <u>11A</u> | <u>0A2-073013</u> | <u>34198</u> | <u>7/30/13</u> | <u>13:15</u> | <u>HOLD</u> | <u>-29.5</u> | <u>-4</u> | | |
| <u>12A</u> | <u>5-IA2-073013</u> | <u>5763</u> | <u>7/30/13</u> | <u>10:07</u> | <u>TO-15 sum sec notes</u> | <u>-30</u> | <u>-5</u> | | |
| <u>13R</u> | <u>5-IA1-073013</u> | <u>94301</u> | <u>7/30/13</u> | <u>10:18</u> | <u>1</u> | <u>-30</u> | <u>-4.5</u> | | |
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8/13

| | | |
|---|--|---|
| Relinquished by: (signature) <u>[Signature]</u> Date/Time <u>8/2/13 13:00</u> | Received by: (signature) <u>[Signature]</u> Date/Time <u>08/06/13 1100</u> | Notes: See attachment for list of compounds and reporting limits. |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |
| Relinquished by: (signature) _____ Date/Time _____ | Received by: (signature) _____ Date/Time _____ | |

| | | | | | | |
|--------------|--------------|------------|-----------|-------------|-----------------------|----------------|
| Lab Use Only | Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
| | <u>UPS</u> | | <u>NA</u> | <u>good</u> | Yes No <u>(None)</u> | <u>1308173</u> |

1308173

Attachment

MFA Project #8006.31.01

Here is the list of analytes with our screening values.

For all of the listed analytes, please ensure that the reported concentrations on the issued report(s) are below the screening values listed below. In most cases, the MRL will be below the screening value so the MRL should be reported. However, some samples may need the MDL reported instead, in order to attain a reported value below the screening value. Please use the MRL as the default reported value, unless the MDL is necessary.

Please assess the need to use the MRL or MDL on a sample by sample (and analyte by analyte) basis.

| Analyte | Air Screening Values ($\mu\text{g}/\text{m}^3$) for 6-liter canisters | Soil Gas Screening Values ($\mu\text{g}/\text{m}^3$) for 1-liter canisters |
|--------------------------|---|--|
| 1,1-dichloroethane | 320 | 3200 |
| 1,1-dichloroethene | 91 | 910 |
| 1,2-dichloroethane | 0.096 | 0.96 |
| Chloroethane | 3 | 30 |
| Cis-1,2-dichloroethene | 16 | 160 |
| Tetrachloroethene | 9.6 | 96 |
| Trans-1,2-dichloroethene | 32 | 320 |
| Trichloroethene | 0.37 | 3.7 |
| Vinyl chloride | 0.28 | 2.8 |
| Helium | Please Report to the MRL | Please Report to the MRL |

Please give me a call if you have any questions regarding this request.

Regards,


Thomas Ashton

503-501-5204

APPENDIX E

DATA VALIDATION



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 8006.31.01 | DECEMBER 13, 2012 | UNION RIDGE INVESTMENT COMPANY

This report reviews the analytical results for air samples collected by the Maul Foster & Alongi, Inc. project team on the Union Ridge Investment Company site located at 122 N. Main Avenue in Ridgefield, Washington. The samples were collected in November 2012.

Eurofins Air Toxics, Inc. (AT) performed the analyses. AT report numbers 1211513A, 1211513B, 1211513C, 1211513D, 1211513E, 1211513FR1, 1211514A, 1211514B, 1211514C, 1211514DR1, 1211514ER2, 1211515A, 1211515B, and 1211515CR1 were reviewed. The analyses performed are listed below.

| Analysis | Reference |
|--|--------------------------------|
| Volatile organic compounds in ambient air (chlorinated hydrocarbons) | Modified USEPA TO-15/TO-15 SIM |
| Permanent gases | Modified ASTM D-1946 |

ASTM = American Society for Testing and Materials.

SIM = selective ion monitoring.

USEPA = U.S. Environmental Protection Agency.

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2008, 2010) and appropriate laboratory and method-specific guidelines (AT, 2012; USEPA, 1986).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not specifically addressed by the functional guidelines.

Soil gas samples were collected under a helium shroud to detect leaks in the collection system. Report 1211514C, indicated helium detections for some samples. All helium detections were below the recommended concentration for resampling (NJDEP, 2012). The samples were also analyzed for USEPA TO-15 (see report 1211514B). USEPA TO-15 results may be biased low when helium is also indicated in the same sample. USEPA TO-15 detections in samples with detectable helium were qualified with a “J,” as estimated.

| Sample | Helium (%) | USEPA TO-15 Report | Analyte | Original Result (µg/m ³) | Qualified Result (µg/m ³) |
|---|------------|--------------------|---------|--------------------------------------|---------------------------------------|
| 7-SS2 | 0.59 | 1211514B | PCE | 7.8 | 7.8 J |
| 7-SS3 | 0.24 | 1211514B | PCE | 14 | 14 J |
| NOTES: µg/ m ³ = microgram per cubic meter. PCE = tetrachloroethene. | | | | | |

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately, with the following exceptions: in sample delivery groups 1211513A and 1211513C, canisters for samples 1-IA2-111512, 27-CS1-111512, and OA2-111512 were measured at ambient pressure in the field and upon receipt at the laboratory.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. If an analyte was detected in a sample and in the associated method blank, the sample result was qualified if the concentration was less than five times the method blank concentration. All method blank results are either below the reporting limit (RL) and/or associated with non-detect sample results.

If an analyte was detected in a sample and in the associated method blank below the RL but above the method detection limit (MDL), sample detections below the level found in the method blank were qualified as "UJ" and reported as not detected (at or below the levels found in the method blank). Sample detections above the level found in the method blank were not qualified.

In report 1211513D, some analytes were detected in the laboratory method blank and between the RL and MDL. Associated sample detections above the level found in the method blank were not qualified. Associated sample detections below the level found in the method blank were qualified as "UJ" and reported as not detected (at or below the levels found in the method blank).

| Report | Sample | Component | Original Result ($\mu\text{g}/\text{m}^3$) | Qualified Result ($\mu\text{g}/\text{m}^3$) |
|---------------------------------|---------------|-----------|---|--|
| 1211513D_d | 24-CS1-111512 | TCE | 0.051 J | 0.052 UJ |
| 1211513D_d | 27-IA2-111512 | TCE | 0.050 J | 0.052 UJ |
| NOTE: TCE = trichloroethene. | | | | |

All remaining laboratory method blanks were non-detect.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

MS/MSD results are used to evaluate laboratory precision and accuracy. MS/MSD samples were not required for these sampling events.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. Laboratory duplicate samples were reported for 1211514C and 1211515B. All relative percent differences were within acceptance limits.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

An LCS/LCSD is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency. All LCS/LCSD analytes were within acceptance limits for percent recovery.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Field duplicates were not submitted for analysis.

CONTINUING CALIBRATION VERIFICATION RESULTS

CCV results are used to demonstrate instrument precision and accuracy through the end of the sample batch. All CCVs were within acceptance limits for percent recovery.

REPORTING LIMITS

The chain of custody was submitted to the laboratory with an attachment indicating target RLs for all analytes. The target RL for TCE was later adjusted from 0.016 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$ because of the type of sample canisters used for this project. AT used the target RLs for non-detect results, except for samples requiring dilutions because of high analyte

concentrations and/or matrix interferences. Most RLs were elevated because of canister dilution caused by residual canister vacuum.

AT reported 1,2-dichloroethane and TCE to the MDL in addendum reports 1211513D, 1211513E, 1211513FR1, 1211514DR1, 1211514ER2, and 1211515CR1. Results reported between the MDL and RL were qualified with a “J” by the laboratory.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

The chain of custody for all reports includes instructions to see an attachment for the list of requested analytical compounds. The attachment submitted with the chains of custody is not the final version submitted to the laboratory; it does not include 1,2-dichloroethane. A final version of the attachment that includes 1,2-dichloroethane was submitted to the laboratory.

In report 1211513A, the result for PCE from USEPA Method TO-15 SIM for sample 7-IA2-111512 was reported as estimated, with a “J” qualifier, because of a rounding protocol used by the laboratory. The rounding protocol and data qualification were verified by the reviewer.

Report 1211514D surrogate acceptance limits are incorrectly reported as 0-130 for all samples. The correct limits are 70-130.

No additional issues were found.

REFERENCES

- AT. 2012. Quality assurance manual. Eurofins Air Toxics, Inc., Folsom, California.
- NJDEP. 2012. Vapor intrusion technical guidance. Vers 2.0. New Jersey Department of Environmental Protection Site Remediation Program. January.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.
- USEPA. 2010. USEPA contract laboratory program national functional guidelines for inorganic superfund data review. EPA 540/R-10/011. U.S. Environmental Protection Agency, Office of Superfund Remediation and Technology Innovation. January.

DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 8006.31.01 | AUGUST 23, 2013 | UNION RIDGE INVESTMENT COMPANY

This report reviews the analytical results for air samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the former Park Laundry site located at 122 N. Main Avenue in Ridgefield, Washington. The samples were collected in July 2013.

Eurofins Air Toxics, Inc. (AT) performed the analyses. AT report numbers 1308171, 1308172A, 1308172B, and 1308173A were reviewed. The analyses performed and samples analyzed are listed below.

| Analysis | Reference |
|--|---|
| Volatile organic compounds in ambient air (chlorinated hydrocarbons) | Modified USEPA TO-15/Modified USEPA TO-15 SIM |

SIM = selective ion monitoring.
USEPA = U.S. Environmental Protection Agency.

| Samples Analyzed | | | |
|------------------|------------------|------------------|------------------|
| SDG No. 1308171 | SDG No. 1308172A | SDG No. 1308172B | SDG No. 1308173A |
| 28-SG1-073013 | 13-IA2-073013 | OA3-073013 | 10-IA1-072913 |
| 13-SG1-073013 | 13-IA1-073013 | OA3-072913 | 1-IA3-072913 |
| 44-SG1-073113 | 5-IA3-073013 | - | 27-IA1-073013 |
| 45-SG1-073113 | 11-IA2-072913 | - | 27-IA2-073013 |
| 46-SG1-073013 | 11-IA3-072913 | - | 28-IA1-073013 |
| 27-SG1-072913 | 11-IA1-072913 | - | 27-CS1-073013 |
| 5-SG1-073013 | 9-IA1-072913 | - | 28-IA2-073013 |
| 11-SG1-073113 | 7-IA2-072913 | - | 28-IA3-073013 |
| 24-SG1-073013 | 7-IA1-072913 | - | 5-IA2-073013 |
| 5-SS1-073013 | 9-IA2-072913 | - | 5-IA1-073013 |
| 5-SS2-073013 | 10-IA2-072913 | - | - |
| 1-SS3-072913 | 10-CS1-072913 | - | - |
| 1-SS2-072913 | 1-IA2-072913 | - | - |
| 1-SS1-072913 | 1-IA1-072913 | - | - |
| 7-SS3-072913 | - | - | - |
| 7-SS2-072913 | - | - | - |
| 7-SS1-072913 | - | - | - |
| 13-SS1-073013 | - | - | - |
| 11-SS4-073113 | - | - | - |
| 11-SS3-073113 | - | - | - |

| Samples Analyzed | | | |
|------------------|------------------|------------------|------------------|
| SDG No. 1308171 | SDG No. 1308172A | SDG No. 1308172B | SDG No. 1308173A |
| 11-SS2-073113 | - | - | - |
| 11-SS1-073113 | - | - | - |

SDG = Sample delivery group

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2008) and appropriate laboratory and method-specific guidelines (AT, 2013; USEPA, 1986).

Data validation procedures were modified, as appropriate, to accommodate quality-control requirements for methods not addressed by the functional guidelines (i.e., Modified USEPA TO-15).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. For purposes of data qualification, the method blanks were associated with all samples prepared in the analytical batch. If an analyte was detected in a sample and in the associated method blank, the sample result was qualified if the concentration was less than ten times the method blank concentration. Method reporting limits (MRLs) were elevated to the concentration detected in the samples, and results were qualified as not detected "U" at the elevated MRL.

If an analyte was detected in a sample and in the associated method blank was below the reporting limit but above the method detection limit (MDL), sample detections below the level found in the method blank were qualified as "U" at the reporting limit.

In report 1308171, the USEPA Method TO-15 method blank analyzed on August 18, 2013, on instrument msd3.i showed detections below the MRL for 1,2-dichloroethane and trichloroethene. The samples associated with this method blank were all non-detect, so no qualifications were made. The USEPA Method TO-15 method blank analyzed on

August 18, 2013, on instrument msdj.i showed a detection below the MRL for 1,2-dichloroethane (at 0.40 microgram per cubic meter [$\mu\text{g}/\text{m}^3$]). The samples associated with this method blank were qualified as follows:

| Sample | Component | Original Result ($\mu\text{g}/\text{m}^3$) | Qualified Result ($\mu\text{g}/\text{m}^3$) |
|---------------|--------------------|--|---|
| 46-SG1-073013 | 1,2-dichloroethane | 1.2 J | 5.0 U |

J = estimated.

All remaining laboratory method blanks were non-detect.

Trip Blanks

Trip blanks were not required for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. All surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

Matrix spike/matrix spike duplicate (MS/MSD) results are used to evaluate laboratory precision and accuracy. MS/MSD samples were not reported.

LABORATORY DUPLICATE RESULTS

Duplicate results are used to evaluate laboratory precision. Laboratory duplicate samples were not reported.

LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RESULTS

A laboratory control sample/laboratory control sample duplicate (LCS/LCSD) is spiked with target analytes to provide information on laboratory precision and accuracy. The LCS/LCSD samples were extracted and analyzed at the required frequency.

In report 1308171, the LCSD analyzed on August 18, 2013, on instrument msd3.i exceeded the lower acceptance limit for 1,2-dichloroethane. The LCS had acceptable recovery and the exceedance was minor; thus, no results were qualified.

All remaining LCS/LCSD analytes were within acceptance limits for percent recovery and relative percent differences.

FIELD DUPLICATE RESULTS

Field duplicate samples measure both field and laboratory precision. Field duplicates were not submitted for analysis.

CONTINUING CALIBRATION VERIFICATION RESULTS

Continuing calibration verification (CCV) results are used to demonstrate instrument precision and accuracy through the end of the sample batch.

All CCVs were within acceptance limits for percent recovery.

REPORTING LIMITS

AT used routine reporting limits for non-detect results, except for 1,2-dichloroethane, trichloroethane, and vinyl chloride, analyzed by Modified USEPA TO-15; and 1,2-dichloroethane, analyzed by Modified USEPA Method TO-15 SIM, which were evaluated to the MDL at the request of the MFA project manager. AT reported MDLs for all results, but only the analytes listed above were evaluated below the MRL. All reporting limits were elevated because of canister dilution caused by residual canister vacuum. Reporting limits were additionally raised for samples that required dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies.

The soil gas and soil gas subslab samples submitted for report 1308171 were collected under a helium shroud to detect leaks in the collection system. Helium was included on the requested compounds list, which was submitted to the laboratory as an attachment for each chain of custody. However, the laboratory did not conduct helium analysis for these samples. The samples were collected in a manner consistent with the project standard operating procedures for soil gas and subslab soil gas sampling. Before collection of each sample, a shut-in test was successfully performed to verify the absence of leakage into the sampling train. Additionally, air purged through the sampling apparatus was analyzed with field detectors to verify the absence of helium. These procedures indicated acceptable sampling system integrity.

Two of the subslab soil gas samples (11-SS2-073113 and 11-SS1-073113) were originally submitted on the chain of custody with samples reported in 1308172A and 1308172B. These two samples were reported with other soil gas samples in report 1308171.

No additional issues were found.

REFERENCES

- AT. 2013. Quality assurance manual. Eurofins Air Toxics, Inc., Folsom, California.
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (revision 6, February 2007).
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.



August 29, 2011
Project No. 8006.31.01

Mr. Guy Barrett
Washington Department of Ecology
PO Box 47775
Olympia, Washington 98504-7775

Re: Data Submittal for Former Park Laundry Property, Ridgefield, Washington

Dear Mr. Barrett:

Maul Foster & Alongi, Inc. (MFA) has prepared this letter on behalf of Union Ridge Investment Company (URIC) for the property located at 122 N. Main Avenue in Ridgefield, Washington (the Property) (see Figure 1). The first phases of the remedial investigation (RI) indicated that volatile organic compounds (VOCs) are present on the Property and on neighboring properties. The Property was historically used by Park Laundry, which may have performed dry cleaning operations that resulted in the release of tetrachloroethene (PCE).

To date, MFA has performed soil, groundwater, and soil-gas investigations in March 2010, October 2010, and most recently in June 2011. The purpose of this letter and attachments is to provide you with the results of the most recent round of site characterization activities. Investigations have included the evaluation of environmental media (i.e., soil, groundwater, and soil vapor) for PCE and its degradation products (including trichloroethene [TCE], cis-1, 2-dichloroethene [DCE], trans-1, 2-DCE, and vinyl chloride).

MFA's June 2011 investigation defined the uppermost water bearing zone (UWBZ) at the site and defined the surface of a clay unit that perches groundwater and limits vertical infiltration. In June 2011, borings were advanced to the north, northeast, and northwest of the Property to further delineate contamination in the uppermost UWBZ. At Ecology's request, monitoring wells were installed on and downgradient of the Property and additional soil-gas probes were advanced in areas with elevated detections of PCE in groundwater (i.e. near the Post Office Property; see GP65 on Figure 1). Data from the June 2011 investigation are provided on the attached figures and tables for your reference. Laboratory reports and a data validation memorandum are also attached.

MFA will provide Ecology with a more comprehensive report describing the results of site characterization in greater detail and provide recommendations for additional characterization. Prior to developing recommendations for additional assessment, MFA would like to meet with Ecology and review the project status and results to date.

Mr. Guy Barrett
August 29, 2011
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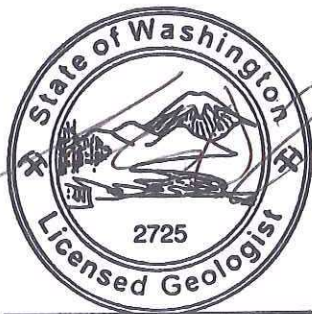
Project No. 8006.31.01

MFA also plans to contact the City of Ridgefield and provide it with the current data so appropriate safety measures can be taken for workers in the plume area.

Please call either of us if you have questions.

Sincerely,

Maul Foster & Alongi, Inc.



MERIDETH D'ANDREA

Merideth D'Andrea, LG
Project Geologist

Attachments: Tables
Figures
Laboratory Reports and Data Validation Memorandum

cc: Robert Hyatt
Lou Ferriera, Stoel Rives LLP

LIMITATIONS

The services undertaken in completing this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

TABLES



Table 1
Water Level Elevations in Shallow Groundwater
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Water Level (feet bgs) | TOC Elevation (feet MSL) | Water Level Elevation (feet MSL) |
|------------------------|---------------------------|-----------------------------|-------------------------------------|
| Deep Borings | | | |
| B5 | 5.2 | 84.95 | 79.75 |
| B6 | 7.9 | 85.54 | 77.64 |
| B7 | 5.9 | 85.39 | 79.49 |
| B8 | 9.2 | 85.30 | 76.10 |
| B9 | 8.3 | 79.57 | 71.27 |
| Shallow Borings | | | |
| GP24 | 7 | 85.72 | 78.72 |
| GP25 | 8 | 85.74 | 77.74 |
| GP26 | 5.8 | 85.43 | 79.63 |
| GP27 | 7.8 | 85.53 | 77.73 |
| GP28 | 5.9 | 85.57 | 79.67 |
| GP29 | 6.6 | 85.43 | 78.83 |
| GP30 | 4.7 | 85.84 | 81.14 |
| GP31 | 7.5 | 85.86 | 78.36 |
| GP32 | 6.5 | 85.65 | 79.15 |
| GP33 | 7.3 | 85.51 | 78.21 |
| GP34 | 6.8 | 85.15 | 78.35 |
| GP35 | 8.8 | 85.61 | 76.81 |
| GP36 | 5.5 | 85.37 | 79.87 |
| GP37 | 7.4 | 85.83 | 78.43 |
| GP38 | 8.3 | 85.30 | 77.00 |
| GP39 | 4.4 | 85.06 | 80.66 |
| GP40 | 6.9 | 85.61 | 78.71 |
| GP41 | 6.4 | 85.76 | 79.36 |
| GP42 | 6.2 | 85.69 | 79.49 |
| GP43 | 6.1 | 85.44 | 79.34 |
| GP44 | 6.2 | 85.56 | 79.36 |
| GP45 | 6.9 | 85.59 | 78.69 |
| GP46 | 6.2 | 85.25 | 79.05 |
| GP47 | 5.4 | 84.77 | 79.37 |
| GP48 | 4.8 | 84.88 | 80.08 |
| GP49 | 6.2 | 84.77 | 78.57 |
| GP50 | 6 | 84.96 | 78.96 |
| GP51 | 7.2 | 85.14 | 77.94 |
| GP52 | 7.7 | 85.26 | 77.56 |
| GP53 | 6.7 | 85.67 | 78.97 |
| GP54 | 5.9 | 85.27 | 79.37 |
| GP55 | 7 | 84.43 | 77.43 |

Table 1
Water Level Elevations in Shallow Groundwater
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Water Level (feet bgs) | TOC Elevation (feet MSL) | Water Level Elevation (feet MSL) |
|--|---------------------------|-----------------------------|-------------------------------------|
| GP56 | 6.2 | 84.97 | 78.77 |
| GP57 | 6.7 | 84.88 | 78.18 |
| GP58 | 4.9 | 85.38 | 80.48 |
| GP59 | 8.7 | 84.90 | 76.20 |
| GP60 | 9 | 84.55 | 75.55 |
| GP61 | 7.8 | 84.96 | 77.16 |
| GP68 | 9.1 | 85.85 | 76.75 |
| GP69 | 9.3 | 86.25 | 76.95 |
| GP70 | 9.5 | 85.52 | 76.02 |
| GP71 | 9.1 | 84.50 | 75.40 |
| GP72 | 9.5 | 84.19 | 74.69 |
| GP73 | 8.9 | 83.98 | 75.08 |
| GP74 | 9.9 | 82.93 | 73.03 |
| GP75 | 12.5 | 83.37 | 70.87 |
| GP76 | 11.4 | 82.59 | 71.19 |
| GP77 | 12.8 | 80.54 | 67.74 |
| GP78 | 12.8 | 83.64 | 70.84 |
| GP79 | 8.8 | 83.87 | 75.07 |
| GP80 | 8.9 | 84.30 | 75.40 |
| GP81 | 9.1 | 84.49 | 75.39 |
| Monitoring Wells | | | |
| MW1 | 5.89 | 85.20 | 79.31 |
| MW2 | 5.75 | 84.78 | 79.03 |
| MW3 | 6.25 | 84.70 | 78.45 |
| MW4 | 5.98 | 83.05 | 77.07 |
| MW5 | 7.46 | 83.46 | 76.00 |
| MW6 | 7.96 | 85.11 | 77.15 |
| MW7 | 9.01 | 82.01 | 73.00 |
| NOTES: bgs = below ground surface. MSL = mean sea level. TOC = top of casing. | | | |

Table 2
PCE and Breakdown Products in Soil (µg/kg)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 50 | NV | 30 | NV |
| MTCA Method B | | | | 4,000,000 | 800,000 | 1,900 | 1,600,000 | 11,000 | 670 |
| B5 | B5-S-0.5 | 03/03/2010 | 0.5 | 7.72 U | 7.72 U | 23.8 | 7.72 U | 7.72 U | 7.72 U |
| | B5-S-5.0 | 03/03/2010 | 5 | 7.2 U | 7.2 U | 7.2 U | 7.2 U | 7.2 U | 7.2 U |
| | B5-S-12.5 | 03/03/2010 | 12.5 | 6.99 U | 6.99 U | 7,490 | 6.99 U | 6.99 U | 6.99 U |
| | B5-S-14.0 | 03/03/2010 | 14 | 6.45 U | 6.45 U | 1,880 | 6.45 U | 6.45 U | 6.45 U |
| | B5-S-39.0 | 03/15/2010 | 39 | 9.13 U | 9.13 U | 9.13 U | 9.13 U | 9.13 U | 9.13 U |
| B6 | B6-S-0.5 | 03/05/2010 | 0.5 | 9.64 U | 9.64 U | 23.7 | 9.64 U | 9.64 U | 9.64 U |
| | B6-S-5.0 | 03/05/2010 | 5 | 11.5 U | 11.5 U | 11.5 U | 11.5 U | 11.5 U | 11.5 U |
| | B6-S-12.0 | 03/05/2010 | 12 | 11.4 U | 11.4 U | 11.4 U | 11.4 U | 11.4 U | 11.4 U |
| B7 | B7-S-14.0 | 03/03/2010 | 14 | 9.72 U | 9.72 U | 9.72 U | 9.72 U | 9.72 U | 9.72 U |
| | B7-S-15.5 | 03/03/2010 | 15.5 | 8.42 U | 8.42 U | 351 | 8.42 U | 8.42 U | 8.42 U |
| B8 | B8-S-0.5 | 03/08/2010 | 0.5 | 9.63 U | 9.63 U | 9.63 U | 9.63 U | 9.63 U | 9.63 U |
| | B8-S-5.0 | 03/08/2010 | 5 | 9.67 U | 9.67 U | 15.3 | 9.67 U | 9.67 U | 9.67 U |
| | B8-S-14.5 | 03/08/2010 | 14.5 | 48.9 U | 48.9 U | 31,400 | 48.9 U | 48.9 U | 48.9 U |
| | B8-S-16.5 | 03/08/2010 | 16.5 | 8.81 U | 8.81 U | 4,370 HT | 8.81 U | 8.81 U | 8.81 U |
| | B8-S-40.0 | 03/17/2010 | 40 | 10.7 U | 10.7 U | 10.7 U | 10.7 U | 10.7 U | 10.7 U |
| B9 | B9-S-19.0 | 03/09/2010 | 19 | 11.6 U | 11.6 U | 271 | 11.6 U | 21.0 | 11.6 U |
| | B9-S-21.5 | 03/09/2010 | 21.5 | 9 U | 9 U | 507 | 9 U | 332 | 9 U |
| | B9-S-42.0 | 03/19/2010 | 42 | 9.33 U | 9.33 U | 9.33 U | 9.33 U | 9.33 U | 9.33 U |
| | B9-S-75.0 | 03/22/2010 | 75 | 8.77 U | 8.77 U | 8.77 U | 8.77 U | 8.77 U | 8.77 U |
| | B9-S-89.0 | 03/22/2010 | 89 | 8.94 U | 8.94 U | 8.94 U | 8.94 U | 8.94 U | 8.94 U |
| B10 | B10-S-33.0 | 03/23/2010 | 33 | 8.19 U | 8.19 U | 8.19 U | 8.19 U | 8.19 U | 8.19 U |
| | B10-S-57.0 | 03/24/2010 | 57 | 9.41 U | 9.41 U | 9.41 U | 9.41 U | 9.41 U | 9.41 U |
| B11 | B11-S-88.0 | 03/26/2010 | 88 | 7.78 U | 7.78 U | 7.78 U | 7.78 U | 7.78 U | 7.78 U |
| GP24 | GP24-S-11.0 | 03/09/2010 | 11 | 10.3 U | 10.3 U | 10.3 U | 10.3 U | 10.3 U | 10.3 U |

Table 2
PCE and Breakdown Products in Soil (µg/kg)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 50 | NV | 30 | NV |
| MTCA Method B | | | | 4,000,000 | 800,000 | 1,900 | 1,600,000 | 11,000 | 670 |
| GP25 | GP25-S-11.5 | 03/04/2010 | 11.5 | 10.9 U | 10.9 U | 10.9 U | 10.9 U | 10.9 U | 10.9 U |
| GP26 | GP26-S-11.0 | 03/04/2010 | 11 | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U |
| GP27 | GP27-S-12.5 | 03/04/2010 | 12.5 | 10.3 U | 10.3 U | 10.3 U | 10.3 U | 10.3 U | 10.3 U |
| GP28 | GP28-S-14.0 | 03/04/2010 | 14 | 8.23 U | 8.23 U | 8.23 U | 8.23 U | 8.23 U | 8.23 U |
| GP29 | GP29-S-12.0 | 03/08/2010 | 12 | 10.9 U | 10.9 U | 10.9 U | 10.9 U | 10.9 U | 10.9 U |
| GP30 | GP30-S-0.5 | 03/04/2010 | 0.5 | 8.8 U | 8.8 U | 37.5 | 8.8 U | 8.8 U | 8.8 U |
| | GP30-S-5.0 | 03/04/2010 | 5 | 9.77 U | 9.77 U | 9.77 U | 9.77 U | 9.77 U | 9.77 U |
| | GP30-S-12.0 | 03/04/2010 | 12 | 9.55 U | 9.55 U | 9.55 U | 9.55 U | 9.55 U | 9.55 U |
| GP32 | GP32-S-0.5 | 03/05/2010 | 0.5 | 9.69 U | 9.69 U | 11.3 | 9.69 U | 9.69 U | 9.69 U |
| | GP32-S-5.0 | 03/05/2010 | 5 | 9.57 U | 9.57 U | 9.57 U | 9.57 U | 9.57 U | 9.57 U |
| | GP32-S-12.0 | 03/05/2010 | 12 | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U | 12.1 U |
| GP33 | GP33-S-0.5 | 03/05/2010 | 0.5 | 12.2 U | 12.2 U | 12.2 U | 12.2 U | 12.2 U | 12.2 U |
| | GP33-S-5.0 | 03/05/2010 | 5 | 9.9 U | 9.9 U | 9.9 U | 9.9 U | 9.9 U | 9.9 U |
| | GP33-S-12.0 | 03/05/2010 | 12 | 11.4 U | 11.4 U | 11.4 U | 11.4 U | 11.4 U | 11.4 U |
| GP35 | GP35-S-14.0 | 03/04/2010 | 14 | 7.98 U | 7.98 U | 7.98 U | 7.98 U | 7.98 U | 7.98 U |
| GP36 | GP36-S-12.5 | 03/08/2010 | 12.5 | 11 U | 11 U | 11 U | 11 U | 11 U | 11 U |
| GP37 | GP37-S-0.5 | 03/05/2010 | 0.5 | 10.1 U | 10.1 U | 10.1 U | 10.1 U | 10.1 U | 10.1 U |
| | GP37-S-5.0 | 03/05/2010 | 5 | 9.82 U | 9.82 U | 9.82 U | 9.82 U | 9.82 U | 9.82 U |
| | GP37-S-12.5 | 03/05/2010 | 12.5 | 11.1 U | 11.1 U | 11.1 U | 11.1 U | 11.1 U | 11.1 U |
| GP38 | GP38-S-0.5 | 03/05/2010 | 0.5 | 13.6 U | 13.6 U | 62.5 | 13.6 U | 13.6 U | 13.6 U |
| | GP38-S-12.0 | 03/05/2010 | 12 | 11.8 U | 11.8 U | 11.8 U | 11.8 U | 11.8 U | 11.8 U |
| GP39 | GP39-S-0.5 | 03/05/2010 | 0.5 | 8.66 U | 8.66 U | 9.74 | 8.66 U | 8.66 U | 8.66 U |
| | GP39-S-5.0 | 03/05/2010 | 5 | 9.81 U | 9.81 U | 9.81 U | 9.81 U | 9.81 U | 9.81 U |
| | GP39-S-12.0 | 03/05/2010 | 12 | 9.35 U | 9.35 U | 9.35 U | 9.35 U | 9.35 U | 9.35 U |

Table 2
PCE and Breakdown Products in Soil (µg/kg)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 50 | NV | 30 | NV |
| MTCA Method B | | | | 4,000,000 | 800,000 | 1,900 | 1,600,000 | 11,000 | 670 |
| GP40 | GP40-S-0.5 | 03/01/2010 | 0.5 | 7.77 U | 7.77 U | 13.3 | 7.77 U | 7.77 U | 7.77 U |
| | GP40-S-5.0 | 03/01/2010 | 5 | 7.74 U | 7.74 U | 7.74 U | 7.74 U | 7.74 U | 7.74 U |
| | GP40-S-11.5 | 03/01/2010 | 11.5 | 7.41 U | 7.41 U | 7.41 U | 7.41 U | 7.41 U | 7.41 U |
| GP41 | GP41-S-0.5 | 03/01/2010 | 0.5 | 7.03 U | 7.03 U | 7.94 | 7.03 U | 7.03 U | 7.03 U |
| | GP41-S-5.0 | 03/01/2010 | 5 | 8.25 U | 8.25 U | 8.25 U | 8.25 U | 8.25 U | 8.25 U |
| | GP41-S-12.5 | 03/01/2010 | 12.5 | 6.97 U | 6.97 U | 6.97 U | 6.97 U | 6.97 U | 6.97 U |
| GP42 | GP42-S-0.5 | 03/01/2010 | 0.5 | 6.67 U | 6.67 U | 16.1 | 6.67 U | 6.67 U | 6.67 U |
| | GP42-S-5.0 | 03/01/2010 | 5 | 6.96 U | 6.96 U | 26.2 | 6.96 U | 6.96 U | 6.96 U |
| | GP42-S-12.5 | 03/01/2010 | 12.5 | 7.95 U | 7.95 U | 10.7 | 7.95 U | 7.95 U | 7.95 U |
| GP43 | GP43-S-0.5 | 03/02/2010 | 0.5 | 11.6 U | 11.6 U | 11.6 U | 11.6 U | 11.6 U | 11.6 U |
| | GP43-S-5.0 | 03/02/2010 | 5 | 13.4 U | 13.4 U | 58.1 | 13.4 U | 13.4 U | 13.4 U |
| | GP43-S-12.5 | 03/02/2010 | 12.5 | 10.6 U | 10.6 U | 115 | 10.6 U | 10.6 U | 10.6 U |
| GP44 | GP44-S-0.5 | 03/01/2010 | 0.5 | 6.89 U | 6.89 U | 54.0 | 6.89 U | 6.89 U | 6.89 U |
| | GP44-S-5.0 | 03/01/2010 | 5 | 8.11 U | 8.11 U | 8.11 U | 8.11 U | 8.11 U | 8.11 U |
| | GP44-S-13.0 | 03/01/2010 | 13 | 7.86 U | 7.86 U | 7.86 U | 7.86 U | 7.86 U | 7.86 U |
| GP45 | GP45-S-0.5 | 03/01/2010 | 0.5 | 8.22 U | 8.22 U | 109 | 8.22 U | 8.22 U | 8.22 U |
| | GP45-S-5.0 | 03/01/2010 | 5 | 6.91 U | 6.91 U | 8.58 | 6.91 U | 6.91 U | 6.91 U |
| | GP45-S-12.5 | 03/01/2010 | 12.5 | 7.65 U | 7.65 U | 12.9 | 7.65 U | 7.65 U | 7.65 U |
| GP46 | GP46-S-0.5 | 03/01/2010 | 0.5 | 6.8 U | 6.8 U | 98.7 | 6.8 U | 6.8 U | 6.8 U |
| | GP46-S-5.0 | 03/01/2010 | 5 | 6.61 U | 6.61 U | 6.61 U | 6.61 U | 6.61 U | 6.61 U |
| | GP46-S-12.0 | 03/01/2010 | 12 | 7.96 U | 7.96 U | 74.3 | 7.96 U | 7.96 U | 7.96 U |
| GP47 | GP47-S-0.5 | 03/02/2010 | 0.5 | 18.6 U | 18.6 U | 19.8 | 18.6 U | 18.6 U | 18.6 U |
| | GP47-S-5.0 | 03/02/2010 | 5 | 12.5 U | 12.5 U | 31.1 | 12.5 U | 12.5 U | 12.5 U |
| | GP47-S-12.0 | 03/02/2010 | 12 | 12 U | 12 U | 6,820 | 12 U | 12 U | 12 U |

Table 2
PCE and Breakdown Products in Soil (µg/kg)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 50 | NV | 30 | NV |
| MTCA Method B | | | | 4,000,000 | 800,000 | 1,900 | 1,600,000 | 11,000 | 670 |
| GP48 | GP48-S-0.5 | 03/03/2010 | 0.5 | 7.93 U | 7.93 U | 24.3 | 7.93 U | 7.93 U | 7.93 U |
| | GP48-S-5.0 | 03/03/2010 | 5 | 7.17 U | 7.17 U | 7.17 U | 7.17 U | 7.17 U | 7.17 U |
| | GP48-S-12.5 | 03/03/2010 | 12.5 | 7.71 U | 7.71 U | 349 | 7.71 U | 7.71 U | 7.71 U |
| GP49 | GP49-S-12.5 | 03/03/2010 | 12.5 | 8.06 U | 8.06 U | 8.06 U | 8.06 U | 8.06 U | 8.06 U |
| GP50 | GP50-S-0.5 | 03/01/2010 | 0.5 | 8.69 U | 8.69 U | 49.3 | 8.69 U | 8.69 U | 8.69 U |
| | GP50-S-5.0 | 03/01/2010 | 5 | 6.62 U | 6.62 U | 6.62 U | 6.62 U | 6.62 U | 6.62 U |
| | GP50-S-12.5 | 03/01/2010 | 12.5 | 7.69 U | 7.69 U | 7.69 U | 7.69 U | 7.69 U | 7.69 U |
| GP51 | GP51-S-0.5 | 03/02/2010 | 0.5 | 9.14 U | 9.14 U | 147 | 9.14 U | 9.14 U | 9.14 U |
| | GP51-S-5.0 | 03/02/2010 | 5 | 6.26 U | 6.26 U | 23.4 | 6.26 U | 6.26 U | 6.26 U |
| | GP51-S-12.5 | 03/02/2010 | 12.5 | 8.18 U | 8.18 U | 117 | 8.18 U | 8.18 U | 8.18 U |
| GP52 | GP52-S-0.5 | 03/03/2010 | 0.5 | 7.44 U | 7.44 U | 33.7 | 7.44 U | 7.44 U | 7.44 U |
| | GP52-S-5.0 | 03/03/2010 | 5 | 7.33 U | 7.33 U | 11.9 | 7.33 U | 7.33 U | 7.33 U |
| | GP52-S-12.5 | 03/03/2010 | 12.5 | 7.82 U | 7.82 U | 316,000 | 7.82 U | 7.82 U | 7.82 U |
| GP53 | GP53-S-12.5 | 03/02/2010 | 12.5 | 7.88 U | 7.88 U | 7.88 U | 7.88 U | 7.88 U | 7.88 U |
| GP54 | GP54-S-0.5 | 03/02/2010 | 0.5 | 12.4 UH | 12.4 UH | 26.0 H | 12.4 UH | 12.4 UH | 12.4 UH |
| | GP54-S-5.0 | 03/02/2010 | 5 | 13 UH | 13 UH | 13 U | 13 UH | 13 UH | 13 UH |
| | GP54-S-12.5 | 03/02/2010 | 12.5 | 8.8 U | 8.8 U | 37.7 | 8.8 U | 8.8 U | 8.8 U |
| GP55 | GP55-S-0.5 | 03/03/2010 | 0.5 | 6.94 U | 6.94 U | 6.94 U | 6.94 U | 6.94 U | 6.94 U |
| | GP55-S-5.0 | 03/03/2010 | 5 | 7.61 U | 7.61 U | 7.61 U | 7.61 U | 7.61 U | 7.61 U |
| | GP55-S-12.5 | 03/03/2010 | 12.5 | 9.81 U | 9.81 U | 862 | 9.81 U | 9.81 U | 9.81 U |
| GP56 | GP56-S-0.5 | 03/03/2010 | 0.5 | 12.5 UH | 12.5 UH | 12.5 UH | 12.5 UH | 12.5 UH | 12.5 UH |
| | GP56-S-5.0 | 03/03/2010 | 5 | 13.1 UH | 13.1 UH | 13.1 UH | 13.1 UH | 13.1 UH | 13.1 UH |
| | GP56-S-13.5 | 03/03/2010 | 13.5 | 7.8 U | 7.8 U | 49.1 | 7.8 U | 7.8 U | 7.8 U |
| GP57 | GP57-S-14.0 | 03/03/2010 | 14 | 6.75 U | 6.75 U | 17.9 | 6.75 U | 6.75 U | 6.75 U |

Table 2
PCE and Breakdown Products in Soil (µg/kg)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 50 | NV | 30 | NV |
| MTCA Method B | | | | 4,000,000 | 800,000 | 1,900 | 1,600,000 | 11,000 | 670 |
| GP58 | GP58-S-15.0 | 03/08/2010 | 15 | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U | 10.5 U |
| GP59 | GP59-S-15.0 | 03/08/2010 | 15 | 10.7 U | 10.7 U | 10.7 U | 10.7 U | 10.7 U | 10.7 U |
| GP60 | GP60-S-14.5 | 03/08/2010 | 14.5 | 52.1 U | 7.08 Q | 53.8 | 52.1 U | 52.1 U | 52.1 U |
| GP61 | GP61-S-14.5 | 03/09/2010 | 14.5 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |

NOTES:

bgs = below ground surface.

Bold = value exceeds MTCA Method B screening levels.

H = sample was analyzed outside recommended hold time.

MTCA = Model Toxics Control Act.

µg/kg = milligrams per kilogram.

NV = no value.

PCE = tetrachloroethene.

Q = detection levels elevated due to sample matrix.

Shading = value exceeds MTCA Method A screening levels.

U = not detected at or above method reporting limits.

Table 3
PCE and Breakdown Products in Reconnaissance Groundwater (µg/L)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloro-ethene | cis-1,2-Dichloro-ethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloro-ethene | Vinyl chloride |
|---------------|-----------------|------------|------------------|---------------------|-------------------------|--------------------|--------------------------|------------------|----------------|
| MTCA Method A | | | | NV | NV | 5 | NV | 5 | 0.2 |
| MTCA Method B | | | | 400 | 80 | 0.081 | 160 | 0.49 | 0.029 |
| B5 | B5-W-12.5 | 03/03/2010 | 12.5 | 1 U | 1 U | 6510 | 1 U | 4.71 | 1 U |
| B6 | B6-W-12.0 | 03/05/2010 | 12 | 1 U | 1 U | 1.00 | 1 U | 1 U | 1 U |
| B7 | B7-W-14.0 | 03/03/2010 | 14 | 1 U | 1 U | 5.87 | 1 U | 1 U | 1 U |
| B8 | B8-W-14.5 | 03/08/2010 | 14.5 | 1 U | 1 U | 2600 | 1 U | 2.54 | 1 U |
| B9 | B9-W-19.0 | 03/09/2010 | 19 | 1 U | 1 U | 60.0 | 1 U | 2.87 | 1 U |
| | B9-W-75.0 | 03/22/2010 | 75 | 1 U | 1 U | 5.29 | 1 U | 1.32 | 1 U |
| | B9-W-75.0-Dup | 03/22/2010 | 75 | 1 U | 1 U | 5.16 | 1 U | 1.47 | 1 U |
| | B9-W-89.0 | 03/22/2010 | 89 | 1 U | 1 U | 5.46 | 1 U | 1 U | 1 U |
| B10 | B10-W-33.0 | 03/23/2010 | 33 | 1 U | 1 U | 3.69 | 1 U | 1.36 | 1 U |
| | B10-W-57.0 | 03/24/2010 | 57 | 1 U | 1 U | 4.69 | 1 U | 1 U | 1 U |
| B11 | B11-W-88.0 | 03/26/2010 | 88 | 1 U | 1 U | 1.81 | 1 U | 1 U | 1 U |
| GP24 | GP24-W-11.0 | 03/08/2010 | 11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP25 | GP25-W-11.5 | 03/04/2010 | 11.5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP26 | GP26-W-11.0 | 03/04/2010 | 11 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP27 | GP27-W-12.5 | 03/04/2010 | 12.5 | 1 U | 1 U | 1.03 | 1 U | 1 U | 1 U |
| GP28 | GP28-W-14.0 | 03/04/2010 | 14 | 1 U | 1 U | 1.17 | 1 U | 1 U | 1 U |
| | GP28-W-14.0-Dup | 03/04/2010 | 14 | 1 U | 1 U | 1.21 | 1 U | 1 U | 1 U |
| GP29 | GP29-W-12.0 | 03/08/2010 | 12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP32 | GP32-W-12.0 | 03/05/2010 | 12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

Table 3
PCE and Breakdown Products in Reconnaissance Groundwater (µg/L)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 5 | NV | 5 | 0.2 |
| MTCA Method B | | | | 400 | 80 | 0.081 | 160 | 0.49 | 0.029 |
| GP33 | GP33-W-12.0 | 03/05/2010 | 12 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP35 | GP35-W-14.0 | 03/04/2010 | 14 | 1 U | 1 U | 1.66 | 1 U | 1 U | 1 U |
| GP36 | GP36-W-12.5 | 03/08/2010 | 12.5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP38 | GP38-W-12.0 | 03/05/2010 | 12 | 1 U | 1 U | 3.78 | 1 U | 1 U | 1 U |
| GP39 | GP39-W-12.0 | 03/05/2010 | 12 | 1 U | 1 U | 1.97 | 1 U | 1 U | 1 U |
| GP40 | GP40-W-11.5 | 03/01/2010 | 11.5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP41 | GP41-W-12.5 | 03/01/2010 | 12.5 | 1 U | 1 U | 7.49 | 1 U | 1 U | 1 U |
| GP42 | GP42-W-12.5 | 03/01/2010 | 12.5 | 1 U | 1 U | 111 | 1 U | 1 U | 1 U |
| GP43 | GP43-W-12.5 | 03/02/2010 | 12.5 | 1 U | 1 U | 3670 | 1 U | 7.46 | 1 U |
| GP44 | GP44-W-13.0 | 03/01/2010 | 13 | 1 U | 1 U | 11.9 | 1 U | 1 U | 1 U |
| GP45 | GP45-W-12.5 | 03/01/2010 | 12.5 | 1 U | 1 U | 21.8 | 1 U | 1 U | 1 U |
| GP46 | GP46-W-12.0 | 03/01/2010 | 12 | 1 U | 1 U | 1710 | 1 U | 1.01 | 1 U |
| GP47 | GP47-W-12.0 | 03/02/2010 | 12 | 1 U | 1 U | 5090 | 1 U | 12.1 | 1 U |
| GP48 | GP48-W-12.5 | 03/03/2010 | 12.5 | 1 U | 1 U | 915 | 1 U | 1.31 | 1 U |
| GP49 | GP49-W-12.5 | 03/03/2010 | 12.5 | 1 U | 1 U | 24.5 | 1 U | 1 U | 1 U |
| GP50 | GP50-W-12.5 | 03/01/2010 | 12.5 | 1 U | 1 U | 6.14 | 1 U | 1 U | 1 U |
| GP51 | GP51-W-12.5 | 03/02/2010 | 12.5 | 1 U | 1 U | 660 | 1 U | 1 U | 1 U |
| GP52 | GP52-W-12.5 | 03/03/2010 | 12.5 | 1 U | 1 U | 37,700 | 1 U | 20.4 | 1 U |
| GP53 | GP53-W-12.5 | 03/02/2010 | 12.5 | 1 U | 1 U | 3.38 | 1 U | 1 U | 1 U |
| GP54 | GP54-W-12.5 | 03/02/2010 | 12.5 | 1 U | 1 U | 148 | 1 U | 1 U | 1 U |
| GP55 | GP55-W-12.5 | 03/03/2010 | 12.5 | 1 U | 1 U | 1970 | 1 U | 1 U | 1 U |

Table 3
PCE and Breakdown Products in Reconnaissance Groundwater (µg/L)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-------------|------------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 5 | NV | 5 | 0.2 |
| MTCA Method B | | | | 400 | 80 | 0.081 | 160 | 0.49 | 0.029 |
| GP56 | GP56-W-13.5 | 03/03/2010 | 13.5 | 1 U | 1 U | 37.4 | 1 U | 1 U | 1 U |
| GP57 | GP57-W-14.0 | 03/03/2010 | 14 | 1 U | 1 U | 2.44 | 1 U | 1 U | 1 U |
| GP58 | GP58-W-15.0 | 03/08/2010 | 15 | 1 U | 1 U | 3.46 | 1 U | 1.64 | 1 U |
| GP59 | GP59-W-15.0 | 03/08/2010 | 15 | 1 U | 1 U | 5.39 | 1 U | 1.96 | 1 U |
| GP60 | GP60-W-14.5 | 03/08/2010 | 14.5 | 1 U | 1 U | 27.8 | 1 U | 4.87 | 1 U |
| GP61 | GP61-W-14.5 | 03/09/2010 | 14.5 | 1 U | 1 U | 18.6 | 1 U | 1 U | 1 U |
| GP62 | GP62-W-15.0 | 10/19/2010 | 15 | 1 U | 1 U | 16.0 | 1 U | 4.92 | 1 U |
| GP63 | GP63-W-21.0 | 10/19/2010 | 21 | 1 U | 1 U | 4.25 | 1 U | 1 U | 1 U |
| GP64 | GP64-W-15.0 | 10/18/2010 | 15 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP65 | GP65-W-21.0 | 10/18/2010 | 21 | 1 U | 1.52 | 1630 | 1 U | 436 | 2.23 |
| GP66 | GP66-W-15.0 | 10/18/2010 | 15 | 1 U | 1 U | 2.12 | 1 U | 1 U | 1 U |
| GP67 | GP67-W-17.0 | 10/18/2010 | 17 | 1 U | 1 U | 175 | 1 U | 6.41 | 1 U |
| GP68 | GP68-W-15.5 | 6/21/2011 | 15.5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP69 | GP69-W-17.0 | 6/21/2011 | 17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP70 | GP70-W-17.0 | 6/21/2011 | 17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP71 | GP71-W-22.1 | 6/21/2011 | 22.1 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP72 | GP72-W-20.0 | 6/20/2011 | 20 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP73 | GP73-W-19.0 | 6/17/2011 | 19 | 1 U | 1 U | 63.2 | 1 U | 4.83 | 1 U |
| GP74 | GP74-W-17.0 | 6/17/2011 | 17 | 1 U | 6.24 | 150 | 1 U | 6.44 | 1 U |
| GP75 | GP75-W-18.5 | 6/16/2011 | 18.5 | 1 U | 23.1 | 268 | 4.54 | 18.3 | 1 U |
| GP76 | GP76-W-18.8 | 6/16/2011 | 18.8 | 1 U | 7.12 | 119 | 1 U | 6.39 | 1 U |
| GP77 | GP77-W-19.0 | 6/16/2011 | 19 | 1 U | 5.88 | 316 | 4.59 | 16.3 | 1 U |

Table 3
PCE and Breakdown Products in Reconnaissance Groundwater (µg/L)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|-----------------|-----------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 5 | NV | 5 | 0.2 |
| MTCA Method B | | | | 400 | 80 | 0.081 | 160 | 0.49 | 0.029 |
| GP78 | GP78-W-31.0 | 6/20/2011 | 31 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| GP79 | GP79-W-21.0 | 6/17/2011 | 21 | 1 U | 1 U | 4.47 | 1 U | 1 U | 1 U |
| GP79 | GP79-W-21.0-DUP | 6/17/2011 | 21 | 1 U | 1 U | 4.51 | 1 U | 1 U | 1 U |
| GP80 | GP80-W-30.0 | 6/17/2011 | 30 | 1 U | 1 U | 5.76 | 1 U | 5.85 | 1 U |
| GP81 | GP81-W-19.0 | 6/23/2011 | 19 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

NOTES:
bgs = below ground surface.
Bold = value exceeds MTCA Method B screening levels.
MTCA = Model Toxics Control Act.
µg/L = micrograms per liter.
NV = no value.
Shading = value exceeds MTCA Method A screening levels.
TCE = trichloroethene.
U = not detected at or above the method reporting limit.

Table 4
PCE and Breakdown Products in Monitoring Wells (ug/L)
Former Park Laundry
Union Ridge Investments Company
Ridgefield, Washington

| Location | Sample ID | Date | Depth (feet bgs) | 1,1-Dichloroethene | cis-1,2-Dichloroethene | Tetra-chloroethene | trans-1,2-Dichloroethene | Trichloroethene | Vinyl chloride |
|---------------|------------|-----------|------------------|--------------------|------------------------|--------------------|--------------------------|-----------------|----------------|
| MTCA Method A | | | | NV | NV | 5 | NV | 5 | 0.2 |
| MTCA Method B | | | | 400 | 80 | 0.081 | 160 | 0.49 | 0.029 |
| MW1 | MW1-12.5 | 6/24/2011 | 12.5 | 1 U | 1 U | 19.5 | 1 U | 1 U | 1 U |
| MW2 | MW2-14.0 | 6/24/2011 | 14 | 1 U | 1 U | 8.84 | 1 U | 1 U | 1 U |
| MW3 | MW3-15.0 | 6/24/2011 | 15 | 1 U | 1 U | 12500 | 1 U | 3.47 | 1 U |
| MW4 | MW4-16.0 | 6/24/2011 | 16 | 1 U | 1 U | 226 | 1 U | 13.9 | 1 U |
| MW4 | MW4-16-DUP | 6/24/2011 | 16 | 1 U | 1 U | 216 | 1 U | 15.8 | 1 U |
| MW5 | MW5-16.5 | 6/24/2011 | 16.5 | 1 U | 1 U | 2240 | 1 U | 3.61 | 1 U |
| MW6 | MW6-16.0 | 6/24/2011 | 16 | 1 U | 1.31 | 3.77 | 1 U | 19.1 | 1 U |
| MW7 | MW7-15.0 | 6/24/2011 | 15 | 1 U | 1 U | 11.7 | 1 U | 1 U | 1 U |

NOTES:

bgs = below ground surface.

Bold = value exceeds MTCA Method B screening levels.

MTCA = Model Toxics Control Act.

µg/L = micrograms per liter.

NV = no value.

Shading = value exceeds MTCA Method A screening levels.

TCE = trichloroethene.

U = not detected at or above the method reporting limit.

Table 5
PCE and Breakdown Products in Soil Gas ($\mu\text{g}/\text{m}^3$)
Former Park Laundry
Union Ridge Investment Company
Ridgefield, Washington

| Location | Sample ID | Lab Code | Date | Depth (feet bgs) | 1,1-Dichloro-ethene | cis-1,2-Dichloro-ethene | Tetra-chloro-ethene | trans-1,2-Dichloro-ethene | Trichloro-ethene | Vinyl chloride |
|--|-----------|-------------|------------|------------------|---------------------|-------------------------|---------------------|---------------------------|------------------|----------------|
| MTCA Method B Subslab Soil Gas Screening Value | | | | | 910 | 160 | 4.2 | 320 | 1 | 2.8 |
| SG1 | SG1-4.0 | 1003288-01A | 03/09/2010 | 4 | 0.14 U | 0.27 U | 200 | 1.4 U | 0.37 U | 0.087 U |
| SG2 | SG2-3.0 | 1003288-02A | 03/09/2010 | 3 | 12 U | 12 U | 3800 | 12 U | 17 U | 7.9 U |
| SG3 | SG3-3.5 | 1003288-03A | 03/10/2010 | 3.5 | 0.064 U | 0.13 U | 0.22 U | 0.64 U | 0.17 U | 0.050 |
| SG4 | SG4-3.5 | 1003288-04A | 03/10/2010 | 3.5 | 0.065 U | 0.13 U | 1.2 | 0.65 U | 0.18 U | 0.042 U |
| SG5 | SG5-3.5 | 1003288-05A | 03/10/2010 | 3.5 | 0.065 U | 0.13 U | 2.9 | 0.65 U | 0.18 U | 0.042 U |
| SG7 | SG7-3.5 | 1003288-07A | 03/10/2010 | 3.5 | 1.2 U | 2.5 U | 2800 | 12 U | 32 | 0.81 U |
| SG8 | SG8-3.5 | 1003288-08A | 03/10/2010 | 3.5 | 0.057 U | 0.11 U | 35 | 0.57 U | 0.15 U | 0.037 U |
| SG9 | SG9-3.5 | 1003288-09A | 03/10/2010 | 3.5 | 0.060 U | 0.12 U | 3.5 | 0.60 U | 0.16 U | 0.094 |
| SG10 | SG10-2.5 | 1003288-10A | 03/10/2010 | 2.5 | 1.2 U | 2.4 U | 1600 | 12 U | 3.3 U | 0.79 U |
| SG11 | SG11 | 1106496-01A | 6/20/2011 | 5 | 4 U | 4 U | 6.8 U | 4 U | 5.4 U | 2.6 U |
| SG12 | SG12 | 1106496-02A | 6/20/2011 | 5 | 4 U | 4 U | 15 | 4 U | 5.4 U | 2.6 U |
| SG13 | SG13 | 1106496-03A | 6/20/2011 | 5 | 4 U | 4 U | 150 | 4 U | 5.4 U | 2.6 U |
| SG14 | SG14 | 1106496-04A | 6/21/2011 | 5 | 4 U | 4 U | 6.8 U | 4 U | 5.4 U | 2.6 U |
| SG15 | SG15 | 1106496-05A | 6/20/2011 | 5 | 4 U | 4 U | 6.8 U | 4 U | 5.4 U | 2.6 U |

NOTES:

bgs = below ground surface.

Bold = value exceeds the MTCA Method B screening level.

MTCA = Model Toxics Control Act.

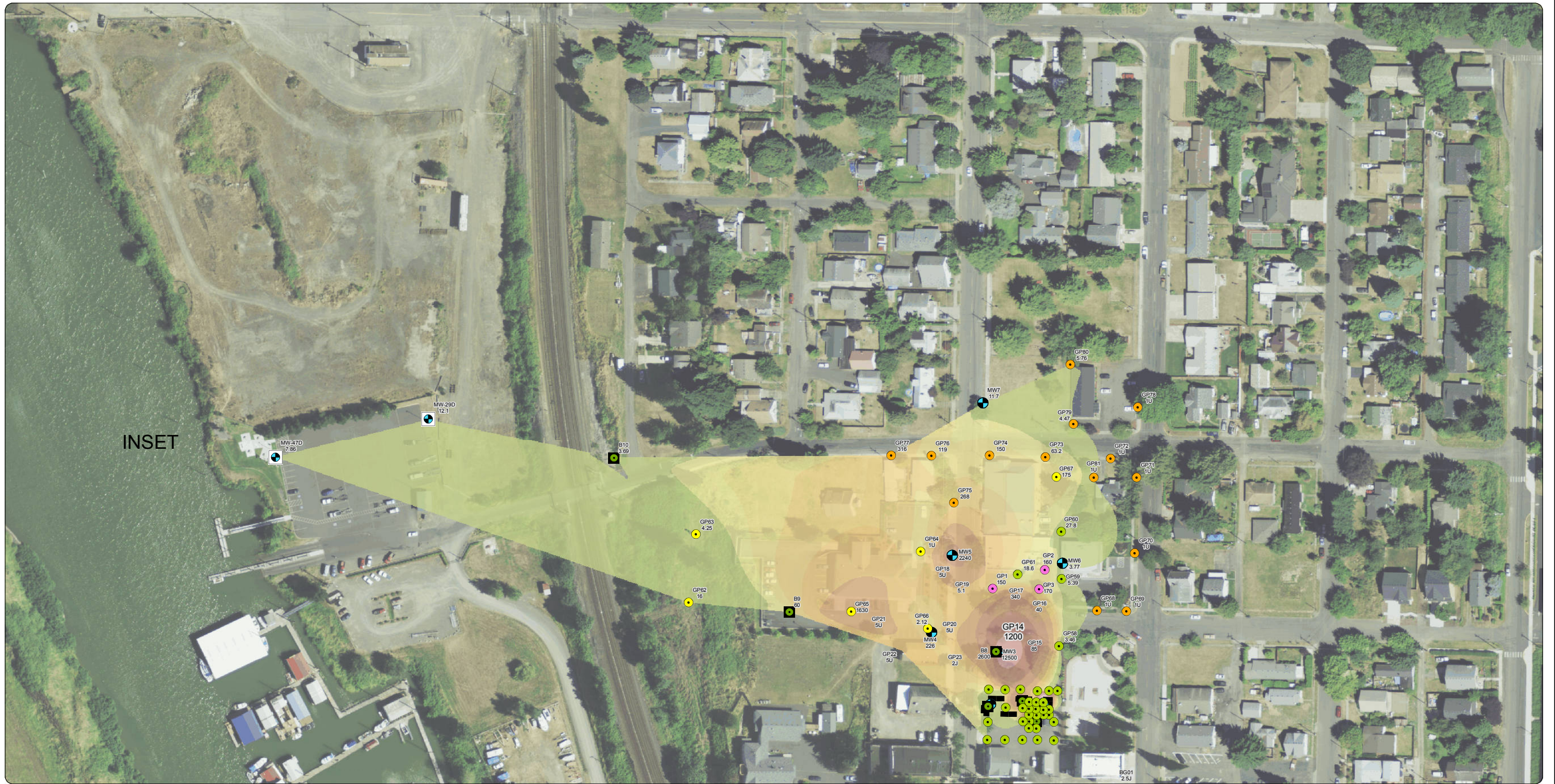
$\mu\text{g}/\text{m}^3$ = micrograms per cubic meter.

PCE = tetrachloroethene.

U = not detected at or above the method reporting limit.

FIGURES





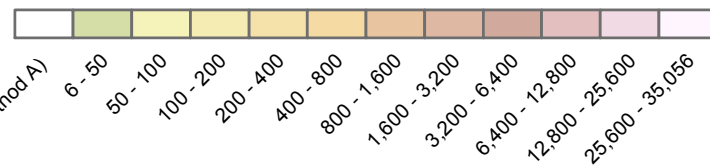
Source: Aerial photograph (2007) obtained from Clark County GIS Services.

Notes
 1. U = Not detected at or above method reporting limit.
 2. PCE concentrations interpolated using the Natural Neighbor tool within Spatial Analyst extension of ArcGis 10.0.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

PCE in Shallow Groundwater (µg/L)

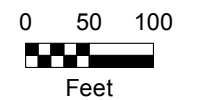


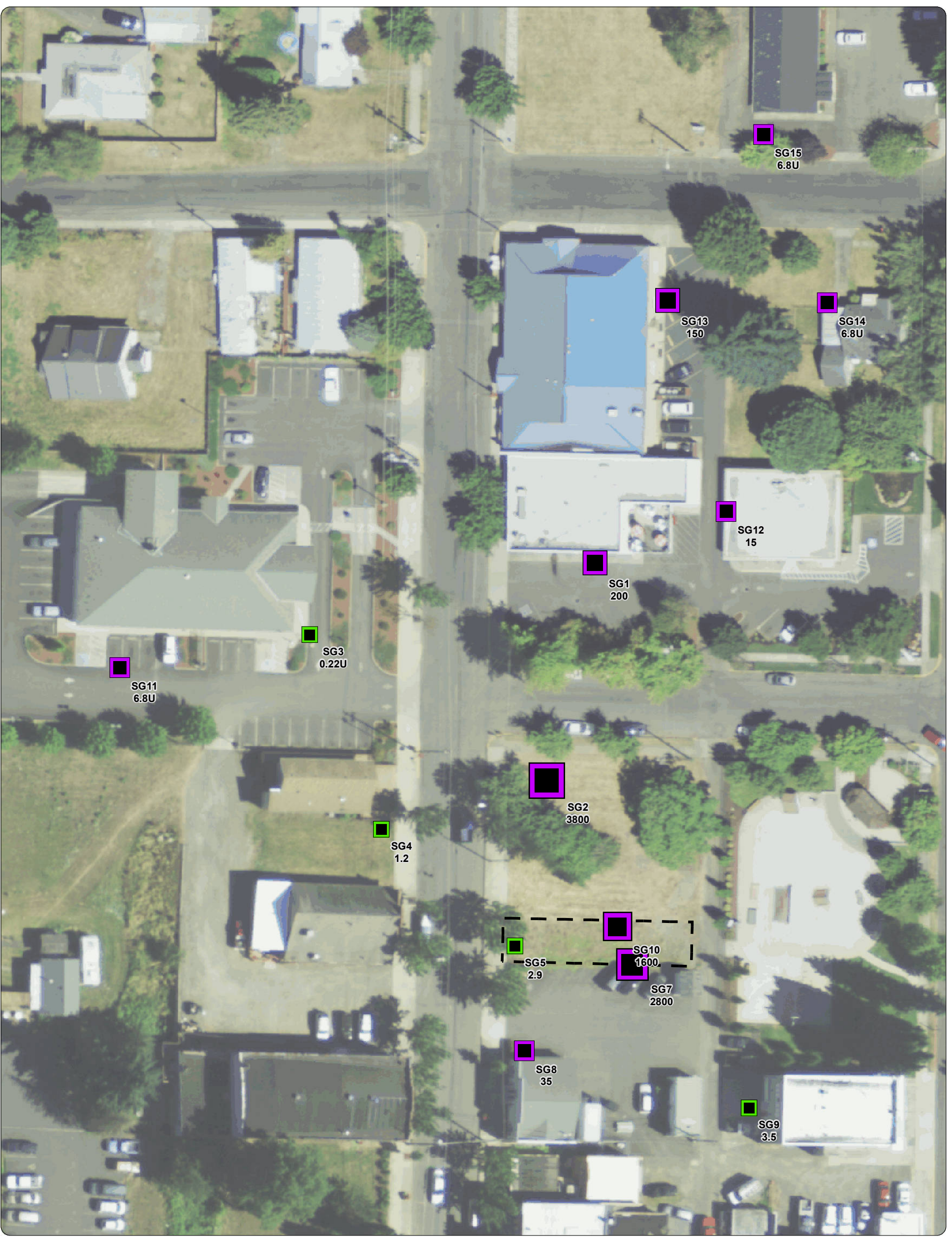
Legend

- Monitoring Well, MFA June 2011
- Monitoring Well, Port of Ridgefield
- Deep Boring, MFA March 2010
- Shallow Boring, MFA March 2010
- Shallow Boring, MFA June 2011
- Shallow Boring, MFA October 2010
- Shallow Boring, MFA 2001
- Property Boundary

Figure 1 PCE Concentrations in Shallow Groundwater

Union Ridge
Investment Company
Ridgefield, Washington





Source: Aerial photograph (2007) obtained from Clark County, Washington GIS Department

Note: U = Not detected at or above method reporting limit.

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Legend
Property Tax Lot Boundary

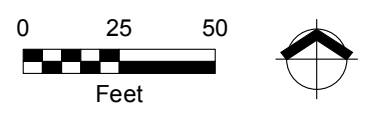
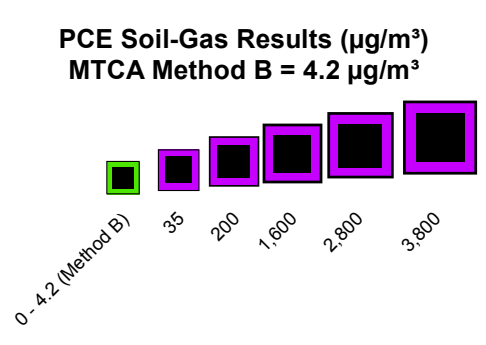






Figure 2
PCE Soil-Gas Results

Union Ridge Investment Company
Ridgefield, Washington



Figure 3
Estimated
Groundwater Elevation
 Union Ridge
 Investment Company
 Ridgefield, Washington

Legend

-  Monitoring Well
-  Soil Boring
-  Groundwater Elevation Contour (1 ft Interval)
-  Property Tax Lot Boundary

Notes:

1. All elevations represented in the National Geodetic Vertical Datum of 1929 (NGVD 29).
2. Groundwater contours were created using Natural Neighbor interpolation method within Spatial Analyst extension of ArcGIS10.



Source: Aerial photograph and tax lot data obtained from Clark County GIS Department.



Source: Aerial photograph (2007) obtained from Clark County GIS Services.

Note
Clay Layer was estimated using the Topo to Raster tool (spline interpolation method) within 3D Analyst extension of ArcGIS 10.0.



This product is for informational purposes and may not have been prepared for, or be suitable for legal, engineering, or surveying purposes. Users of this information should review or consult the primary data and information sources to ascertain the usability of the information.

- Legend**
- Monitoring Well
 - Soil Boring
 - Clay Surface (2ft interval)
 - Property Boundary

Figure 4
Clay Layer Elevations

Union Ridge
Investment Company
Ridgefield, Washington



ATTACHMENT

LABORATORY REPORTS AND DATA
VALIDATION MEMORANDUM



DATA QUALITY ASSURANCE/QUALITY CONTROL REVIEW

PROJECT NO. 8006.31.01 | JULY 8TH, 2011 | UNION RIDGE INVESTMENT COMPANY

This report reviews the analytical results for groundwater samples collected by the Maul Foster & Alongi, Inc. (MFA) project team on the Union Ridge Investment Company site located at 122 N. Main Avenue in Ridgefield, Washington. The samples were collected in June, 2011.

Specialty Analytical (SA), in Clackamas, Oregon performed the analyses. SA report number 1106146, 1106174, 1106182 and Air Toxics Ltd. (ATL) report number 1106496_d were reviewed. The analyses performed are listed below.

| Analysis | Reference |
|-----------------------------------|-------------|
| Volatile organic compounds | USEPA 8260B |
| Volatile organic compounds in air | USEPA TO-17 |

USEPA = U.S. Environmental Protection Agency.

DATA QUALIFICATIONS

Analytical results were evaluated according to applicable sections of USEPA procedures (USEPA, 2008), and appropriate laboratory and method-specific (SA, 2010; ATL, 2011; USEPA, 1986).

The data are considered acceptable for their intended use, with the appropriate data qualifiers assigned.

HOLDING TIMES, PRESERVATION, AND SAMPLE STORAGE

Holding Times

Extractions and analyses were performed within the recommended holding time criteria.

Preservation and Sample Storage

The samples were preserved and stored appropriately.

BLANKS

Method Blanks

Laboratory method blank analyses were performed at the required frequencies. No analytes were detected above the RLs in the method blanks.

Trip Blanks

Trip blanks were not submitted for this sampling event.

Equipment Rinsate Blanks

Equipment rinsate blanks were not required for this sampling event, as all samples were collected using dedicated, single-use equipment.

SURROGATE RECOVERY RESULTS

The samples were spiked with surrogate compounds to evaluate laboratory performance on individual samples. ATL sample 1106496-01A had a high surrogate recovery, but all of the analytes were non-detects. All other surrogate recoveries were within acceptance limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS

MS/MSD results are used to evaluate laboratory precision and accuracy. All MS/MSD samples were extracted and analyzed at the required frequency. All recoveries were within acceptance limits for percent recovery and relative percent differences (RPDs).

LABORATORY CONTROL SAMPLE RESULTS

An LCS is spiked with target analytes to provide information on laboratory accuracy. The LCS samples were extracted and analyzed at the required frequency. All LCS analytes were within acceptance limits for percent recovery.

REPORTING LIMITS

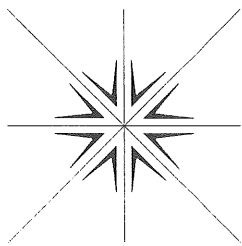
SA and ATL used routine reporting limits for non-detect results, except for samples requiring dilutions because of high analyte concentrations and/or matrix interferences.

DATA PACKAGE

The data packages were reviewed for transcription errors, omissions, and anomalies. None were found.

REFERENCES

- SA. 2010. Quality assurance manual. Specialty Analytical, Clackamas, Oregon.
- ATL 2011. Quality assurance manual. Air Toxics Ltd., Folsom, California
- USEPA. 1986. Test methods for evaluating solid waste: physical/chemical methods. EPA-530/SW-846. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. September (update 1, July 1992; update 2a, August 1993; update 2, September 1994; update 2b, January 1995).
- USEPA. 2008. USEPA contract laboratory program, national functional guidelines for organics data review. EPA 540/R-08/01. U.S. Environmental Protection Agency, Office of Emergency and Remedial Response. June.



Specialty Analytical

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Clackamas, OR 97015
(503) 607-1331
Fax (503) 607-1336

July 01, 2011

Merideth D'Andrea
Maul, Foster & Alongi
7223 NE Hazel Dell Avenue
Suite B
Vancouver, WA 98665

TEL: (360) 694-2691

FAX: (360) 906-1958

RE: URIC / 8006.31.01

Dear Merideth D'Andrea:

Order No.: 1106174

Specialty Analytical received 5 samples on 6/24/2011 for the analyses presented in the following report.

There were no problems with the analysis and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative, or as qualified with flags. Results apply only to the samples analyzed. Without approval of the laboratory, the reproduction of this report is only permitted in its entirety.

If you have any questions regarding these tests, please feel free to call.

Sincerely,


Cindy Hillyard
Project Manager


Technical Review