

Mr. Mostafa Mehran  
Arkansas Department of Environmental Quality  
5301 Northshore Drive  
North Little Rock, Arkansas 72118

**RE: Onsite Indoor Air and Sub-slab Soil Vapor Data Report  
Former Whirlpool Facility  
Fort Smith, Arkansas**

Dear Mr. Mehran:

Date April 27, 2016

On behalf of Whirlpool Corporation (Whirlpool), Ramboll Environ US Corporation (Ramboll Environ) collected indoor air and sub-slab soil vapor samples within and beneath the former Whirlpool manufacturing building located at 6400 Jenny Lind Road in Fort Smith, Arkansas. The purpose of the indoor air sampling was to evaluate potential vapor intrusion within the building as a result of the trichloroethene (TCE) contamination under investigation by Whirlpool. Whirlpool is planning and preparing the building for reuse and the indoor air quality assessment is an important part of the process for re-purposing the building.

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As summarized in the Two Year Technical Review Report (Ramboll Environ, 2016), TCE exists beneath the building primarily beneath the western portion of the former manufacturing building based upon historic operations performed at the site, membrane interface probe (MIP) investigations, interior soil probes and borings for collection of soil and groundwater samples and groundwater monitoring events performed over the last 20+ years.

Currently the building is unoccupied. Whirlpool is beginning with the removal of equipment associated with the former operations and demolition and removal of mezzanine structures in the building with an objective of creating an open floor plan building with approximately 38 foot ceiling heights to facilitate re-purposing the building for warehousing operations.

The indoor air sampling that was performed to assess the indoor air quality that workers would encounter during those upcoming activities.

The number and location of the indoor air and sub-slab soil vapor samples collected in February 2016 are consistent with those in the Onsite Preliminary Indoor Air Quality Investigation Work Plan (February 3, 2016), which was submitted to and approved by the Arkansas Department of Environmental Quality (ADEQ). All samples were collected while the building's ventilation system was operating normally

with several overhead doors open. The building conditions during sampling were consistent with conditions that would have occurred when the facility was previously in operation, as well as, the conditions expected to be maintained during the upcoming phases of preparing the building for reuse.

## **SAMPLING METHODS**

### **Pre Sampling Preparation**

At least 8 hours prior to sampling indoor air or sub-slab soil vapor, the building ventilation system was operated at levels that were consistent with the conditions while the facility was operated by Whirlpool. The operation of the building ventilation system was intended to simulate conditions to be maintained during the upcoming phases of activities to prepare the building for reuse.

While the building ventilation system was operating and before collecting samples, the indoor air was field screened using a 10.6 eV MiniRAE 2000 hand-held photoionization detector (PID). The field screening was performed on January 12, 2016, to determine whether any air quality conditions might warrant taking additional health and safety precautions during sampling and to identify building features that might serve as preferential pathways for vapor intrusion (e.g. floor joints or cracks, below grade pits, etc.). There were no detections of volatile organic compounds (VOCs) in indoor air during the pre-sampling inspection. The PID was calibrated to a detection limit of approximately 1 parts per million (ppm), which is below the Occupational Safety and Health Administration (OSHA) limit of 10 ppm for TCE.

### **Indoor and Outdoor Air Sampling**

Indoor air samples were collected on February 18, 2016, while the building ventilation system was operating normally with several overhead doors open. Sampling was performed between 0700 and 1745 CDT and during this time the temperature ranged from 40 to 78°F, the relative humidity ranged from 16 to 68% and the wind speed ranged from 5.8 to 21.9 miles per hour (mph) based upon climate data from the National Weather Service at the Fort Smith Regional Airport located approximately 2 miles northeast of the site (February 18, 2016, climate data).

Indoor air samples were collected from open areas at six locations within the building (Figure 1). The locations were away from existing machinery, concrete pits, or confined areas.

An outdoor air sample was also collected on February 18, 2016, to evaluate potential contributions from sources other than vapor intrusion. The outdoor air sample was collected northeast of the building, which was upwind of the building when sample collection started.

Indoor and outdoor air samples, including one duplicate indoor air sample, were collected at breathing height (approximately 70 inches above the ground) over an 8 hour period.

Samples were collected using certified clean stainless steel Summa canisters provided by an accredited analytical laboratory using flow control regulators preset by the laboratory to collect an 8 hour time integrated sample. The canister ID, regulator ID and initial canister pressure were logged at the beginning of sampling at each location. Indoor and outdoor air samples were collected until the pressure remaining in the canister read between negative (-) 5 and 6 inches mercury (in. Hg). All canisters were sealed and shipped to the analytical laboratory for analysis of TCE and associated breakdown products using USEPA Method TO-15 SIM. The results are summarized in Table 1. A complete laboratory report of the indoor and outdoor air sampling results is attached.

### **Sub-slab Vapor Sampling**

Permanent sub-slab soil vapor sampling ports were installed through the floor of the building on February 24, 2016. The sub-slab soil vapor sampling ports were placed adjacent to the indoor air sampling locations discussed above. After final placement of the sample locations, the distances from each port to the closest wall was measured and are summarized in Table 2.

The six sampling ports were installed through the concrete floor using a hammer drill. The hammer drill was used to drill a roughly 2 inch deep, 1.5 inch outer diameter hole into the concrete floor. A smaller 5/8 inch inner diameter borehole was drilled approximately 6 inches deeper and through the bottom of the slab. The holes in the concrete were cleared of drill cuttings with a shop-vac and the opening was monitored using a PID placed into each hole for 1 minute.

A Stainless Steel Vapor Pin™ was installed into each hole through the slab and hammered into place using a rubber mallet. The vapor pin was sealed into the 5/8 inch inner diameter borehole through the slab using the manufacturer supplied rubber sheath that is designed to create an airtight seal between the vapor pin and the concrete slab. An airtight cap was placed on the opening in the vapor pin that is used to withdraw sub-slab soil vapors for sampling. The ports were allowed to equilibrate overnight prior to sampling sub-slab soil vapor.

Sub-slab vapor sampling was conducted on February 25, 2016, with building conditions similar to those during the collection of indoor air, as discussed above. Sampling was performed between 0845 and 1945 CDT and during this time the temperature ranged from 42 to 50°F, the relative humidity ranged from 36 to 58% and the wind speed ranged from 4.6 to 15 mph based upon climate data from the National Weather Service at the Fort Smith Airport (February 25, 2016, climate data).

Sub-slab samples were collected after at least 2 liters (L) of air was purged and tested for methane (CH<sub>4</sub>), carbon dioxide (CO<sub>2</sub>) and oxygen (O<sub>2</sub>) content using a GEM 2000 multi-gas probe. Leak testing was conducted during purging and during the first 30 minutes of sampling. A shroud was placed over the sub-slab sample port, sampling train and tubing connections to and from the Summa canister and helium was injected until the air in the

shroud measured >15% helium using a helium detector. The helium detector was then used to measure the amount of helium in the sampling line. All helium measurements from the leak test were non-detect, except at sample location Q4 where 225 ppm of helium was measured in the sampling line. The helium concentration of 225 ppm was below the limit of 5% helium, suggesting the sampling train was adequately sealed (Onsite Preliminary Indoor Air Quality Investigation Work Plan, February 3, 2016, Attachment B: Sub-slab Soil Vapor Sampling Leak Testing Procedures).

After the sampling train was determined to be adequately sealed, soil vapor samples were collected using certified clean stainless steel Summa canisters provided by an accredited analytical laboratory using flow control regulators pre-set by the laboratory to collect an 8 hour time integrated sample. The canister ID, regulator ID and initial canister pressure were logged at the beginning of sampling at each location. Soil vapor samples were collected until the pressure remaining in the canister read between negative (-) 5 and 6 inches mercury (in. Hg). All canisters were sealed and shipped to the analytical laboratory for analysis of TCE and associated breakdown products using Method TO-15 SIM. The results are summarized on Table 3.

## EVALUATION OF RESULTS

### Indoor Air

As summarized in Table 1, certain chemicals [1,2-dichloroethane (1,2-DCA), trans-1,2-dichloroethene (trans-1,2-DCE), tetrachloroethene (PCE) and TCE] were detected in the indoor air samples. Their respective concentrations were in each case below USEPA and ADEQ indoor air screening levels<sup>1</sup>. These screening levels are conservative and are not intended to represent action levels.

These results do not indicate health risks from indoor exposure in the open areas of the building when it is operating under normal conditions.

### Sub-slab Vapor

Table 3 shows that some chemicals were detected in the sub-slab soil vapor samples. TCE was detected in sub-slab soil vapor samples at concentrations of 522 and 1,590 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) (sample locations Q2 and Q5, respectively) which exceed the USEPA sub-slab vapor screening level concentration (assuming USEPA's default attenuation factor of 0.03) as shown in Table 3. However, indoor air TCE concentrations at Q2 and Q5 were well below indoor air screening levels ( $0.11 \mu\text{g}/\text{m}^3$  and  $0.27 \mu\text{g}/\text{m}^3$ , respectively

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<sup>1</sup> The USEPA Regional Screening Levels are used for site "screening" to help assess conditions that may require further attention at a particular site. When contaminant concentrations fall below screening levels, no further action or study is typically warranted as long as the exposure assumptions remain consistent. Concentrations detected above a screening level do not automatically trigger a response action; however, concentrations exceeding screening levels suggest that further evaluation of the potential risks of site contaminants is appropriate.

compared to the indoor air screening level of 8.8  $\mu\text{g}/\text{m}^3$ ). In addition, vinyl chloride (VC) (a breakdown product of TCE) was detected at Q3 at a concentration beneath the slab (60,000  $\mu\text{g}/\text{m}^3$ ) that exceed USEPA's sub-slab vapor screening levels; however, the indoor air VC concentration at Q3 was below detection limits.

The highest TCE concentrations detected in sub-slab soil vapor were located in the same areas (Q2 and Q5) where the highest TCE indoor air concentrations were detected. These results indicate that some of the TCE in the indoor air may have originated from under the slab at these locations.

## CONCLUSION

As discussed above, the indoor air data do not indicate health risks from vapor intrusion in the open areas of the building when it is operating under normal conditions. The groundwater, soil and soil vapor data from beneath and around the building indicate that if floor penetrations occur, a potential exists for contaminants in the subsurface to volatilize and migrate into the indoor air in some parts of the building.

## RECOMMENDATIONS

Whirlpool will require the following precautionary measures during activities related to preparation of the building for reuse (e.g. during the inventory and removal of equipment associated with the former operations, renovation of the existing space, filling pits, removing offices):

- A health and safety plan (HASP) should be prepared by the respective contractors for the building preparation or renovation activities in the building that include appropriate measures for the constituents present at the site;
- All work must comply with OSHA regulations;
- Work must be performed only during normal operating building conditions (i.e. the ventilation system must be operating normally and overhead doors must be open); and
- The concrete floor should not be penetrated during any activities, including equipment removal, demolition of mezzanines, or backfilling concrete pits.

In addition to the above precautions, an additional round of indoor air, outdoor air and sub-slab soil vapor samples will be collected during the summer months to determine if warmer weather produces results that are materially different from those in February. The Q1 and Q4 sampling locations (indoor air and sub-slab vapor) will be positioned at locations in the respective quadrants exhibiting the highest TCE concentrations in groundwater based upon the latest published progress report when the next sampling event is performed. The need for further sampling thereafter will be evaluated based on these results and any monitoring performed during building preparation and renovation activities.

After the building has been renovated and before it is put back into operation for commercial purposes, additional indoor air and sub-slab soil vapor sampling should be performed to confirm the safety of indoor air quality in the renovated building. The details of such sampling will depend on the nature of the renovations completed and the specific planned future use or uses of the building.

-ooOoo-

Please contact me if you have any additional comments or questions regarding the assessment of indoor air quality at the former Whirlpool manufacturing building.

Sincerely,



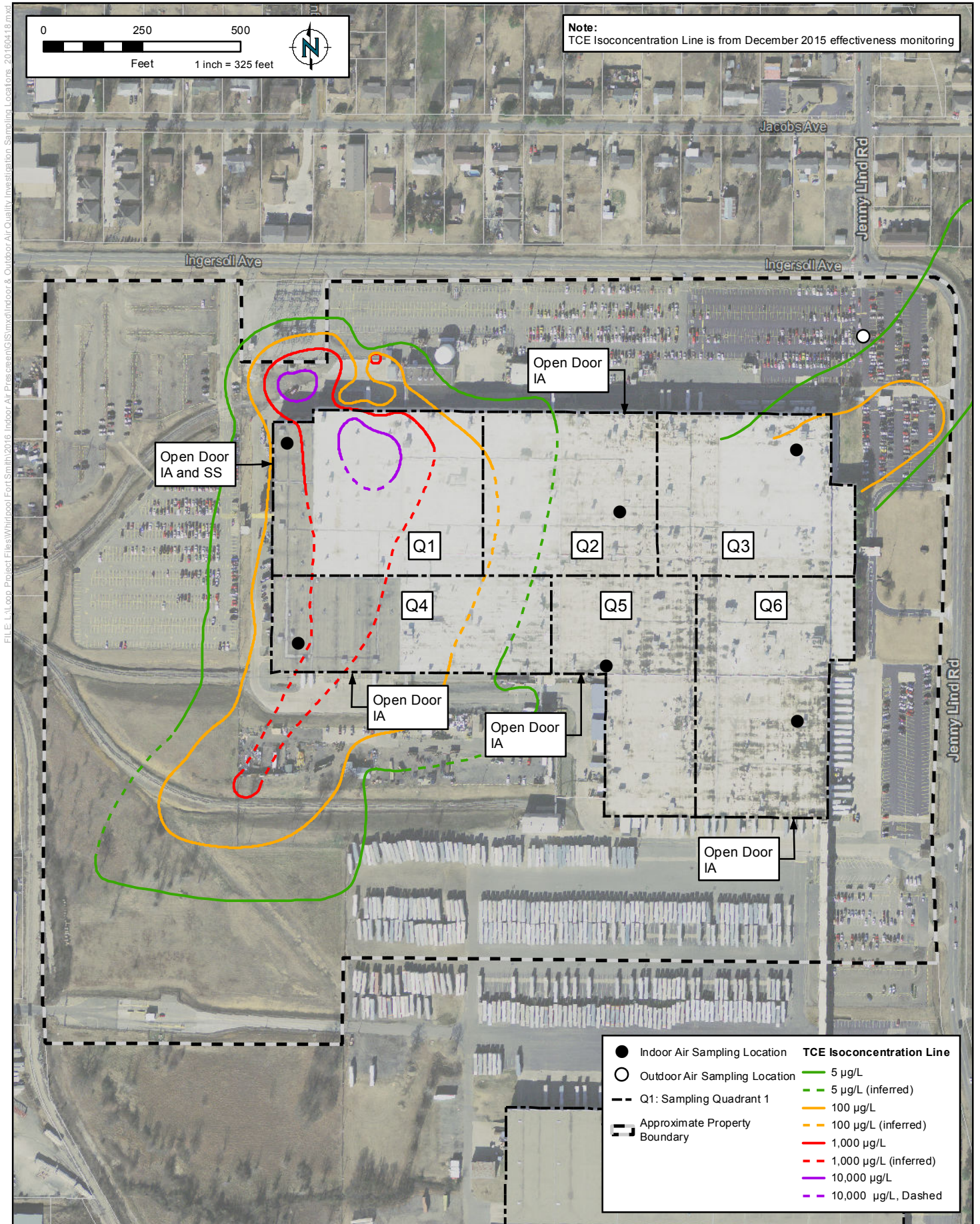
**Michael F. Ellis, PE**  
Principal

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## FIGURE





## **TABLES**

**TABLE 1**  
**INDOOR AIR SAMPLING RESULTS**  
**Former Whirlpool Facility - Fort Smith, Arkansas**

| Location                          | Industrial Air | Q1            | Q2            | Q3           | Q3 - DUP      | Q4            | Q5            | Q6           | AA            |
|-----------------------------------|----------------|---------------|---------------|--------------|---------------|---------------|---------------|--------------|---------------|
| Ramboll Environ Sample ID         | RSL            | Q1-201602     | Q2-201602     | Q3-201602    | Q3-201602-DUP | Q4-201602     | Q5-201602     | Q6-201602    | AA-201602     |
| Lab Sample ID                     | (TR = 1E-5)    | 60213392002   | 60213392003   | 60213392004  | 60213392005   | 60213392006   | 60213392007   | 60213392008  | 60213392001   |
| Sample Date                       | (THQ = 1)      | 2/18/2016     | 2/18/2016     | 2/18/2016    | 2/18/2016     | 2/18/2016     | 2/18/2016     | 2/18/2016    | 2/18/2016     |
| <b>Volatile Organic Compounds</b> |                |               |               |              |               |               |               |              |               |
| 1,1-Dichloroethane                | 77             | ND (0.057)    | ND (0.055)    | ND (0.057)   | ND (0.057)    | ND (0.057)    | ND (0.059)    | ND (0.057)   | ND (0.072)    |
| 1,2-Dichloroethane                | 4.7            | 0.074 (0.057) | 0.11 (0.055)  | 0.21 (0.057) | 0.21 (0.057)  | 0.066 (0.057) | 0.078 (0.059) | 0.12 (0.057) | ND (0.072)    |
| 1,1-Dichloroethene                | 880            | ND (1.1)      | ND (1.1)      | ND (1.1)     | ND (1.1)      | ND (1.1)      | ND (1.2)      | ND (1.1)     | ND (1.4)      |
| cis-1,2-Dichloroethene            |                | ND (0.056)    | ND (0.054)    | ND (0.056)   | ND (0.056)    | ND (0.056)    | ND (0.058)    | ND (0.056)   | ND (0.071)    |
| trans-1,2-Dichloroethene          |                | ND (0.056)    | 0.067 (0.054) | ND (0.056)   | ND (0.056)    | ND (0.056)    | ND (0.058)    | ND (0.056)   | ND (0.071)    |
| Tetrachloroethene                 | 180            | ND (0.096)    | 0.21 (0.092)  | 0.2 (0.096)  | 0.21 (0.096)  | 0.11 (0.096)  | ND (0.099)    | ND (0.096)   | 0.19 (0.12)   |
| 1,1,1-Trichloroethane             | 22000          | ND (0.077)    | ND (0.074)    | ND (0.077)   | ND (0.077)    | ND (0.077)    | ND (0.080)    | ND (0.077)   | ND (0.097)    |
| Trichloroethene                   | 8.8            | 0.064 (0.038) | 0.11 (0.037)  | ND (0.038)   | ND (0.038)    | 0.041 (0.038) | 0.27 (0.039)  | ND (0.038)   | 0.052 (0.048) |
| Vinyl Chloride                    | 28             | ND (0.036)    | ND (0.035)    | ND (0.036)   | ND (0.036)    | ND (0.036)    | ND (0.037)    | ND (0.036)   | ND (0.046)    |

Notes:

All concentrations presented in micrograms per cubic meters ( $\mu\text{g}/\text{m}^3$ )

RSL - Regional screening levels

Q1 - Quadrant 1

U - Not detected

( ) - Detection Limit

**TABLE 2**  
**SUB-SLAB SOIL VAPOR POINT LOCATIONS**  
**Former Whirlpool Facility - Fort Smith, Arkansas**

| Location | Distance to Outside Wall  |
|----------|---|
| Q1       | 37 feet east of west exterior wall; 38 feet south of north wall |
| Q2       | 230 feet south of north exterior wall                           |
| Q3       | 90 feet south of north exterior wall; 92 feet west of east wall |
| Q4       | 69 feet north of south exterior wall                            |
| Q5       | 30 feet south of exterior wall                                  |
| Q6       | 54 feet west of east exterior wall                              |

Notes:

Q1 - Quadrant 1

**TABLE 3**  
**SUB-SLAB SOIL VAPOR SAMPLING RESULTS**  
**Former Whirlpool Facility - Fort Smith, Arkansas**

| Location                          | Industrial Air | Q1           | Q1            | Q2           | Q3           | Q4           | Q5           | Q6           |
|-----------------------------------|----------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|
| Ramboll Environ Sample ID         | RSL            | Q1-SS-201602 | SS-201602-DUP | Q2-SS-201602 | Q3-SS-201602 | Q4-SS-201602 | Q5-SS-201602 | Q6-SS-201602 |
| Lab Sample ID                     | (TR = 1E-5)    | 60213886007  | 60213886001   | 60213886002  | 60213886003  | 60213886004  | 60213886005  | 60213886006  |
| Sample Date                       | (THQ = 1)      | 2/25/2016    | 2/25/2016     | 2/25/2016    | 2/25/2016    | 2/25/2016    | 2/25/2016    | 2/25/2016    |
| <b>Volatile Organic Compounds</b> |                |              |               |              |              |              |              |              |
| 1,1-Dichloroethane                | 77             | U (1.2)      | U (1.6)       | U (1.30)     | 131J (407)   | U (1.2)      | U (26.4)     | U (1.3)      |
| 1,2-Dichloroethane                | 4.7            | U (0.61)     | U (0.82)      | U (0.66)     | U (203)      | U (0.61)     | U (13.2)     | U (0.64)     |
| 1,1-Dichloroethene                | 880            | U (1.2)      | U (1.6)       | U (1.3)      | U (402)      | U (1.2)      | U (26.1)     | U (1.3)      |
| cis-1,2-Dichloroethene            |                | U (1.2)      | U (1.6)       | 2.2 (1.3)    | 4150 (402)   | U (1.2)      | U (26.1)     | U (1.3)      |
| trans-1,2-Dichloroethene          |                | U (1.2)      | U (1.6)       | U (1.3)      | 673 (402)    | U (1.2)      | U (26.1)     | U (1.3)      |
| Tetrachloroethene                 | 180            | U (1.0)      | U (1.4)       | 0.75J (1.1)  | U (342)      | U (1.0)      | 13.3J (22.2) | 1.3 (1.1)    |
| 1,1,1-Trichloroethane             | 22000          | 86.1 (1.7)   | 64.0 (2.2)    | 132 (1.8)    | U (551)      | U (1.7)      | U (35.7)     | 17.7 (1.7)   |
| Trichloroethene                   | 8.8            | U (0.82)     | U (1.1)       | 552 (4.4)    | U (273)      | U (0.82)     | 1590 (17.7)  | U (0.85)     |
| Vinyl Chloride                    | 28             | U (0.39)     | U (0.52)      | U (0.42)     | 60000 (516)  | U (0.39)     | U (8.4)      | U (0.40)     |

Notes:

All concentrations presented in micrograms per cubic meters ( $\mu\text{g}/\text{m}^3$ )

RSL - Regional screening levels

Q1 - Quadrant 1

U - Not detected

( ) - Detection Limit

**APPENDIX A**  
Laboratory Reports

February 22, 2016

Wendy Stonestreet  
Ramboll Environ  
7500 College Blvd Ste 925  
Overland Park, KS 66210

RE: Project: Whirlpool Air Mont.  
Pace Project No.: 60213392

Dear Wendy Stonestreet:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colleen Clyne  
colleen.clyne@pacelabs.com  
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: 14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

| Lab ID      | Sample ID       | Matrix | Date Collected | Date Received  |
|-------------|-----------------|--------|----------------|----------------|
| 60213392001 | AA-201602       | Air    | 02/18/16 15:41 | 02/19/16 10:15 |
| 60213392002 | Q1-201602       | Air    | 02/18/16 16:08 | 02/19/16 10:15 |
| 60213392003 | Q2-201602       | Air    | 02/18/16 16:15 | 02/19/16 10:15 |
| 60213392004 | Q3-201602       | Air    | 02/18/16 16:20 | 02/19/16 10:15 |
| 60213392005 | Q3-201602 - DUP | Air    | 02/18/16 16:20 | 02/19/16 10:15 |
| 60213392006 | Q4-201602       | Air    | 02/18/16 16:29 | 02/19/16 10:15 |
| 60213392007 | Q5-201602       | Air    | 02/18/16 16:34 | 02/19/16 10:15 |
| 60213392008 | Q6-201602       | Air    | 02/18/16 16:38 | 02/19/16 10:15 |

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### SAMPLE ANALYTE COUNT

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

| Lab ID      | Sample ID       | Method       | Analysts | Analytes Reported | Laboratory |
|-------------|-----------------|--------------|----------|-------------------|------------|
| 60213392001 | AA-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392002 | Q1-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392003 | Q2-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392004 | Q3-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392005 | Q3-201602 - DUP | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392006 | Q4-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392007 | Q5-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |
| 60213392008 | Q6-201602       | TO-15 by SIM | MJL      | 9                 | PASI-M     |

### REPORT OF LABORATORY ANALYSIS

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## PROJECT NARRATIVE

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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**Method:** TO-15 by SIM

**Description:** TO15 MSV AIR SIM

**Client:** Environ\_AR

**Date:** February 22, 2016

**General Information:**

8 samples were analyzed for TO-15 by SIM. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Duplicate Sample:**

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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**Sample: AA-201602**      **Lab ID: 60213392001**      Collected: 02/18/16 15:41      Received: 02/19/16 10:15      Matrix: Air

| Parameters               | Results      | Units                           | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|--------------|---------------------------------|-----------------|--------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR SIM</b>  |              | Analytical Method: TO-15 by SIM |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane       | ND           | ug/m3                           | 0.072           | 0.0084 | 1.75 |          | 02/21/16 22:59 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND           | ug/m3                           | 0.072           | 0.0081 | 1.75 |          | 02/21/16 22:59 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND           | ug/m3                           | 1.4             | 0.42   | 1.75 |          | 02/21/16 22:59 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND           | ug/m3                           | 0.071           | 0.011  | 1.75 |          | 02/21/16 22:59 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND           | ug/m3                           | 0.071           | 0.018  | 1.75 |          | 02/21/16 22:59 | 156-60-5 |      |
| Tetrachloroethene        | <b>0.19</b>  | ug/m3                           | 0.12            | 0.0085 | 1.75 |          | 02/21/16 22:59 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND           | ug/m3                           | 0.097           | 0.0076 | 1.75 |          | 02/21/16 22:59 | 71-55-6  |      |
| Trichloroethene          | <b>0.052</b> | ug/m3                           | 0.048           | 0.012  | 1.75 |          | 02/21/16 22:59 | 79-01-6  |      |
| Vinyl chloride           | ND           | ug/m3                           | 0.046           | 0.013  | 1.75 |          | 02/21/16 22:59 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

| Sample: Q1-201602      Lab ID: 60213392002      Collected: 02/18/16 16:08      Received: 02/19/16 10:15      Matrix: Air |              |       |                 |        |      |          |                |          |      |
|--|--------------|-------|-----------------|--------|------|----------|----------------|----------|------|
| Parameters   | Results      | Units | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
| <b>TO15 MSV AIR SIM</b> Analytical Method: TO-15 by SIM  |              |       |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane   | ND           | ug/m3 | 0.057           | 0.0067 | 1.39 |          | 02/21/16 23:26 | 75-34-3  |      |
| 1,2-Dichloroethane   | <b>0.074</b> | ug/m3 | 0.057           | 0.0064 | 1.39 |          | 02/21/16 23:26 | 107-06-2 |      |
| 1,1-Dichloroethene   | ND           | ug/m3 | 1.1             | 0.33   | 1.39 |          | 02/21/16 23:26 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND           | ug/m3 | 0.056           | 0.0091 | 1.39 |          | 02/21/16 23:26 | 156-59-2 |      |
| trans-1,2-Dichloroethene   | ND           | ug/m3 | 0.056           | 0.015  | 1.39 |          | 02/21/16 23:26 | 156-60-5 |      |
| Tetrachloroethene  | ND           | ug/m3 | 0.096           | 0.0067 | 1.39 |          | 02/21/16 23:26 | 127-18-4 |      |
| 1,1,1-Trichloroethane  | ND           | ug/m3 | 0.077           | 0.0060 | 1.39 |          | 02/21/16 23:26 | 71-55-6  |      |
| Trichloroethene  | <b>0.064</b> | ug/m3 | 0.038           | 0.0096 | 1.39 |          | 02/21/16 23:26 | 79-01-6  |      |
| Vinyl chloride   | ND           | ug/m3 | 0.036           | 0.011  | 1.39 |          | 02/21/16 23:26 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

| Sample: Q2-201602      Lab ID: 60213392003      Collected: 02/18/16 16:15      Received: 02/19/16 10:15      Matrix: Air |              |       |                 |        |      |          |                |          |      |
|--|--------------|-------|-----------------|--------|------|----------|----------------|----------|------|
| Parameters   | Results      | Units | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
| <b>TO15 MSV AIR SIM</b> Analytical Method: TO-15 by SIM  |              |       |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane   | ND           | ug/m3 | 0.055           | 0.0064 | 1.34 |          | 02/21/16 23:53 | 75-34-3  |      |
| 1,2-Dichloroethane   | <b>0.11</b>  | ug/m3 | 0.055           | 0.0062 | 1.34 |          | 02/21/16 23:53 | 107-06-2 |      |
| 1,1-Dichloroethene   | ND           | ug/m3 | 1.1             | 0.32   | 1.34 |          | 02/21/16 23:53 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND           | ug/m3 | 0.054           | 0.0088 | 1.34 |          | 02/21/16 23:53 | 156-59-2 |      |
| trans-1,2-Dichloroethene   | <b>0.067</b> | ug/m3 | 0.054           | 0.014  | 1.34 |          | 02/21/16 23:53 | 156-60-5 |      |
| Tetrachloroethene  | <b>0.21</b>  | ug/m3 | 0.092           | 0.0065 | 1.34 |          | 02/21/16 23:53 | 127-18-4 |      |
| 1,1,1-Trichloroethane  | ND           | ug/m3 | 0.074           | 0.0058 | 1.34 |          | 02/21/16 23:53 | 71-55-6  |      |
| Trichloroethene  | <b>0.11</b>  | ug/m3 | 0.037           | 0.0093 | 1.34 |          | 02/21/16 23:53 | 79-01-6  |      |
| Vinyl chloride   | ND           | ug/m3 | 0.035           | 0.010  | 1.34 |          | 02/21/16 23:53 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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**Sample: Q3-201602**      **Lab ID: 60213392004**      Collected: 02/18/16 16:20      Received: 02/19/16 10:15      Matrix: Air

| Parameters               | Results     | Units                           | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|-------------|---------------------------------|-----------------|--------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR SIM</b>  |             | Analytical Method: TO-15 by SIM |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane       | ND          | ug/m3                           | 0.057           | 0.0067 | 1.39 |          | 02/22/16 10:05 | 75-34-3  |      |
| 1,2-Dichloroethane       | <b>0.21</b> | ug/m3                           | 0.057           | 0.0064 | 1.39 |          | 02/22/16 10:05 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND          | ug/m3                           | 1.1             | 0.33   | 1.39 |          | 02/22/16 10:05 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND          | ug/m3                           | 0.056           | 0.0091 | 1.39 |          | 02/22/16 10:05 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND          | ug/m3                           | 0.056           | 0.015  | 1.39 |          | 02/22/16 10:05 | 156-60-5 |      |
| Tetrachloroethene        | <b>0.20</b> | ug/m3                           | 0.096           | 0.0067 | 1.39 |          | 02/22/16 10:05 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND          | ug/m3                           | 0.077           | 0.0060 | 1.39 |          | 02/22/16 10:05 | 71-55-6  |      |
| Trichloroethene          | ND          | ug/m3                           | 0.038           | 0.0096 | 1.39 |          | 02/22/16 10:05 | 79-01-6  |      |
| Vinyl chloride           | ND          | ug/m3                           | 0.036           | 0.011  | 1.39 |          | 02/22/16 10:05 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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**Sample: Q3-201602 - DUP**      **Lab ID: 60213392005**      Collected: 02/18/16 16:20      Received: 02/19/16 10:15      Matrix: Air

| Parameters               | Results     | Units                           | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|-------------|---------------------------------|-----------------|--------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR SIM</b>  |             | Analytical Method: TO-15 by SIM |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane       | ND          | ug/m3                           | 0.057           | 0.0067 | 1.39 |          | 02/22/16 10:32 | 75-34-3  |      |
| 1,2-Dichloroethane       | <b>0.21</b> | ug/m3                           | 0.057           | 0.0064 | 1.39 |          | 02/22/16 10:32 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND          | ug/m3                           | 1.1             | 0.33   | 1.39 |          | 02/22/16 10:32 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND          | ug/m3                           | 0.056           | 0.0091 | 1.39 |          | 02/22/16 10:32 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND          | ug/m3                           | 0.056           | 0.015  | 1.39 |          | 02/22/16 10:32 | 156-60-5 |      |
| Tetrachloroethene        | <b>0.21</b> | ug/m3                           | 0.096           | 0.0067 | 1.39 |          | 02/22/16 10:32 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND          | ug/m3                           | 0.077           | 0.0060 | 1.39 |          | 02/22/16 10:32 | 71-55-6  |      |
| Trichloroethene          | ND          | ug/m3                           | 0.038           | 0.0096 | 1.39 |          | 02/22/16 10:32 | 79-01-6  |      |
| Vinyl chloride           | ND          | ug/m3                           | 0.036           | 0.011  | 1.39 |          | 02/22/16 10:32 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

**Sample: Q4-201602**      **Lab ID: 60213392006**      Collected: 02/18/16 16:29      Received: 02/19/16 10:15      Matrix: Air

| Parameters                      | Results      | Units | Report |        |      | Prepared | Analyzed       | CAS No.  | Qual |
|---------------------------------|--------------|-------|--------|--------|------|----------|----------------|----------|------|
|                                 |              |       | Limit  | MDL    | DF   |          |                |          |      |
| <b>TO15 MSV AIR SIM</b>         |              |       |        |        |      |          |                |          |      |
| Analytical Method: TO-15 by SIM |              |       |        |        |      |          |                |          |      |
| 1,1-Dichloroethane              | ND           | ug/m3 | 0.057  | 0.0067 | 1.39 |          | 02/22/16 11:00 | 75-34-3  |      |
| 1,2-Dichloroethane              | <b>0.066</b> | ug/m3 | 0.057  | 0.0064 | 1.39 |          | 02/22/16 11:00 | 107-06-2 |      |
| 1,1-Dichloroethene              | ND           | ug/m3 | 1.1    | 0.33   | 1.39 |          | 02/22/16 11:00 | 75-35-4  |      |
| cis-1,2-Dichloroethene          | ND           | ug/m3 | 0.056  | 0.0091 | 1.39 |          | 02/22/16 11:00 | 156-59-2 |      |
| trans-1,2-Dichloroethene        | ND           | ug/m3 | 0.056  | 0.015  | 1.39 |          | 02/22/16 11:00 | 156-60-5 |      |
| Tetrachloroethene               | <b>0.11</b>  | ug/m3 | 0.096  | 0.0067 | 1.39 |          | 02/22/16 11:00 | 127-18-4 |      |
| 1,1,1-Trichloroethane           | ND           | ug/m3 | 0.077  | 0.0060 | 1.39 |          | 02/22/16 11:00 | 71-55-6  |      |
| Trichloroethene                 | <b>0.041</b> | ug/m3 | 0.038  | 0.0096 | 1.39 |          | 02/22/16 11:00 | 79-01-6  |      |
| Vinyl chloride                  | ND           | ug/m3 | 0.036  | 0.011  | 1.39 |          | 02/22/16 11:00 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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**Sample: Q5-201602**      **Lab ID: 60213392007**      Collected: 02/18/16 16:34      Received: 02/19/16 10:15      Matrix: Air

| Parameters               | Results      | Units                           | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|--------------|---------------------------------|-----------------|--------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR SIM</b>  |              | Analytical Method: TO-15 by SIM |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane       | ND           | ug/m3                           | 0.059           | 0.0069 | 1.44 |          | 02/22/16 09:11 | 75-34-3  |      |
| 1,2-Dichloroethane       | <b>0.078</b> | ug/m3                           | 0.059           | 0.0066 | 1.44 |          | 02/22/16 09:11 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND           | ug/m3                           | 1.2             | 0.34   | 1.44 |          | 02/22/16 09:11 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND           | ug/m3                           | 0.058           | 0.0095 | 1.44 |          | 02/22/16 09:11 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND           | ug/m3                           | 0.058           | 0.015  | 1.44 |          | 02/22/16 09:11 | 156-60-5 |      |
| Tetrachloroethene        | ND           | ug/m3                           | 0.099           | 0.0070 | 1.44 |          | 02/22/16 09:11 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND           | ug/m3                           | 0.080           | 0.0063 | 1.44 |          | 02/22/16 09:11 | 71-55-6  |      |
| Trichloroethene          | <b>0.27</b>  | ug/m3                           | 0.039           | 0.010  | 1.44 |          | 02/22/16 09:11 | 79-01-6  |      |
| Vinyl chloride           | ND           | ug/m3                           | 0.037           | 0.011  | 1.44 |          | 02/22/16 09:11 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

**Sample: Q6-201602**      **Lab ID: 60213392008**      Collected: 02/18/16 16:38      Received: 02/19/16 10:15      Matrix: Air

| Parameters                      | Results     | Units | Report<br>Limit | MDL    | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|---------------------------------|-------------|-------|-----------------|--------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR SIM</b>         |             |       |                 |        |      |          |                |          |      |
| Analytical Method: TO-15 by SIM |             |       |                 |        |      |          |                |          |      |
| 1,1-Dichloroethane              | ND          | ug/m3 | 0.057           | 0.0067 | 1.39 |          | 02/22/16 09:38 | 75-34-3  |      |
| 1,2-Dichloroethane              | <b>0.12</b> | ug/m3 | 0.057           | 0.0064 | 1.39 |          | 02/22/16 09:38 | 107-06-2 |      |
| 1,1-Dichloroethene              | ND          | ug/m3 | 1.1             | 0.33   | 1.39 |          | 02/22/16 09:38 | 75-35-4  |      |
| cis-1,2-Dichloroethene          | ND          | ug/m3 | 0.056           | 0.0091 | 1.39 |          | 02/22/16 09:38 | 156-59-2 |      |
| trans-1,2-Dichloroethene        | ND          | ug/m3 | 0.056           | 0.015  | 1.39 |          | 02/22/16 09:38 | 156-60-5 |      |
| Tetrachloroethene               | ND          | ug/m3 | 0.096           | 0.0067 | 1.39 |          | 02/22/16 09:38 | 127-18-4 |      |
| 1,1,1-Trichloroethane           | ND          | ug/m3 | 0.077           | 0.0060 | 1.39 |          | 02/22/16 09:38 | 71-55-6  |      |
| Trichloroethene                 | ND          | ug/m3 | 0.038           | 0.0096 | 1.39 |          | 02/22/16 09:38 | 79-01-6  |      |
| Vinyl chloride                  | ND          | ug/m3 | 0.036           | 0.011  | 1.39 |          | 02/22/16 09:38 | 75-01-4  |      |

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### QUALITY CONTROL DATA

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

QC Batch: AIR/25275

Analysis Method: TO-15 by SIM

QC Batch Method: TO-15 by SIM

Analysis Description: TO-15 GC/MSV AIR SIM

Associated Lab Samples: 60213392001, 60213392002, 60213392003, 60213392004, 60213392005, 60213392006, 60213392007, 60213392008

METHOD BLANK: 2195843

Matrix: Air

Associated Lab Samples: 60213392001, 60213392002, 60213392003, 60213392004, 60213392005, 60213392006, 60213392007, 60213392008

| Parameter                | Units | Blank Result | Reporting Limit | MDL    | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|--------|----------------|------------|
| 1,1,1-Trichloroethane    | ug/m3 | ND           | 0.056           | 0.0044 | 02/21/16 19:00 |            |
| 1,1-Dichloroethane       | ug/m3 | ND           | 0.041           | 0.0048 | 02/21/16 19:00 |            |
| 1,1-Dichloroethene       | ug/m3 | ND           | 0.81            | 0.24   | 02/21/16 19:00 |            |
| 1,2-Dichloroethane       | ug/m3 | ND           | 0.041           | 0.0046 | 02/21/16 19:00 |            |
| cis-1,2-Dichloroethene   | ug/m3 | ND           | 0.040           | 0.0066 | 02/21/16 19:00 |            |
| Tetrachloroethene        | ug/m3 | ND           | 0.069           | 0.0048 | 02/21/16 19:00 |            |
| trans-1,2-Dichloroethene | ug/m3 | ND           | 0.040           | 0.010  | 02/21/16 19:00 |            |
| Trichloroethene          | ug/m3 | ND           | 0.027           | 0.0069 | 02/21/16 19:00 |            |
| Vinyl chloride           | ug/m3 | ND           | 0.026           | 0.0077 | 02/21/16 19:00 |            |

LABORATORY CONTROL SAMPLE: 2195844

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane    | ug/m3 | .28         | 0.26       | 94        | 67-143       |            |
| 1,1-Dichloroethane       | ug/m3 | .2          | 0.21       | 103       | 65-138       |            |
| 1,1-Dichloroethene       | ug/m3 | .2          | ND         | 108       | 61-139       |            |
| 1,2-Dichloroethane       | ug/m3 | .21         | 0.17       | 84        | 63-132       |            |
| cis-1,2-Dichloroethene   | ug/m3 | .2          | 0.17       | 86        | 64-137       |            |
| Tetrachloroethene        | ug/m3 | .34         | 0.28       | 83        | 61-134       |            |
| trans-1,2-Dichloroethene | ug/m3 | .2          | 0.18       | 88        | 59-142       |            |
| Trichloroethene          | ug/m3 | .27         | 0.27       | 97        | 60-140       |            |
| Vinyl chloride           | ug/m3 | .13         | 0.14       | 110       | 64-142       |            |

SAMPLE DUPLICATE: 2196085

| Parameter                | Units | 60213333001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|--------------------------|-------|--------------------|------------|-----|---------|------------|
| 1,1,1-Trichloroethane    | ug/m3 | ND                 | ND         |     |         | 25         |
| 1,1-Dichloroethane       | ug/m3 | ND                 | ND         |     |         | 25         |
| 1,1-Dichloroethene       | ug/m3 | ND                 | ND         |     |         | 25         |
| 1,2-Dichloroethane       | ug/m3 | 0.045J             | .046J      |     |         | 25         |
| cis-1,2-Dichloroethene   | ug/m3 | ND                 | ND         |     |         | 25         |
| Tetrachloroethene        | ug/m3 | 0.62               | 0.56       | 10  |         | 25         |
| trans-1,2-Dichloroethene | ug/m3 | ND                 | ND         |     |         | 25         |
| Trichloroethene          | ug/m3 | 0.072              | 0.061      | 17  |         | 25         |
| Vinyl chloride           | ug/m3 | ND                 | ND         |     |         | 25         |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whirlpool Air Mont.

Pace Project No.: 60213392

| Lab ID      | Sample ID       | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-------------|-----------------|-----------------|-----------|-------------------|------------------|
| 60213392001 | AA-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392002 | Q1-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392003 | Q2-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392004 | Q3-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392005 | Q3-201602 - DUP | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392006 | Q4-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392007 | Q5-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |
| 60213392008 | Q6-201602       | TO-15 by SIM    | AIR/25275 |                   |                  |

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**Air Sample Condition Upon Receipt**

Client Name: Ramboll Environ

Project #: **WO# : 60213392**



Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other:

Tracking Number: 8097 26644026, 8678 12752574

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Optional: Proj. Due Date: Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other:

Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): 0 Corrected Temp (°C): 0

Thermom. Used:  B88A912167504  B88A9132521491

72337080  80512447

Temp should be above freezing to 6°C Correction Factor: 0

Date & Initials of Person Examining Contents: 2/19/16

Type of ice Received  Blue  Wet  None

**Comments:**

|   |  |     |
|---|--|-----|
| Chain of Custody Present?                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out?                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished?                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name and/or Signature on COC?           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time?               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.  |
| Short Hold Time Analysis (<72 hr)?              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 6.  |
| Rush Turn Around Time Requested?                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | 7.  |
| Sufficient Volume?                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 8.  |
| Correct Containers Used?                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 9.  |
| -Pace Containers Used?                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |     |
| Containers Intact?                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 10. |
| Media: <u>Air Can</u> Airbag Filter TDT Passive |  | 11. |
| Sample Labels Match COC?                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 12. |

**Samples Received:**

| Canisters     |             |                    | Canisters     |        |                    |
|---------------|-------------|--------------------|---------------|--------|--------------------|
| Sample Number | Can ID      | Flow Controller ID | Sample Number | Can ID | Flow Controller ID |
| <u>AA</u>     | <u>1058</u> | <u>1060</u>        |               |        |                    |
| <u>Q1</u>     | <u>2101</u> | <u>0262</u>        |               |        |                    |
| <u>Q2</u>     | <u>1658</u> | <u>0612</u>        |               |        |                    |
| <u>Q3</u>     | <u>2684</u> | <u>1655</u>        |               |        |                    |
| <u>Q3 Dup</u> | <u>1733</u> | <u>0512</u>        |               |        |                    |
| <u>Q4</u>     | <u>2809</u> | <u>1079</u>        |               |        |                    |
| <u>Q5</u>     | <u>0521</u> | <u>0258</u>        |               |        |                    |
| <u>Q6</u>     | <u>0691</u> | <u>1011</u>        |               |        |                    |

**CLIENT NOTIFICATION/RESOLUTION**

Field Data Required?  Yes  No

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/Resolution: \_\_\_\_\_

Project Manager Review: CMC

Date: 2/19/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)









# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

| Page: 1 of 1   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|---|-------------------|---------------------------------------|---------------------------|--------------------------|--|--|--|--|-------------------|---------------------|-------------------|-------------|------------------|-------------|------------------|-------------|------------------|-------------|---|-----------|------------|----|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|-------------------|-----|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|-------------------|-----|------|--------------------------|-------|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|-----------------|-----|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|----------------|------------------|-----|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|-------|------|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|--|--|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|-----------|--|--|------|--------------------------|-----|----|------|--------|--|---|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Section A</b><br>Required Client Information:   | <b>Section B</b><br>Required Project Information:     |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company: <b>RAMBOLL ENVIRON</b>  | Report To: <b>egleason@ramboll.com</b>                |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address: <b>7500 COLLEGE BLVD 9475</b>   | Company Name: <b>TAMARA GLEASON</b>                   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Overland Park, KS 66216</b>   | Address: <b>RAMBOLL-ENVIRON</b>                       |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Email To: <b>wstone-street@ramboll.com</b>   | Pace Quote Reference: <b>MICHIGAN, 49503</b>          |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone: <b>913-553-3126</b>   | Pace Project Manager/Sales Rep: <b>Colleen Clynch</b> |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Requested Due Date/TAT: <b>1 DAY</b>   | Pace Profile #: <b>7444</b>                           |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Section C</b><br>Invoice Information:   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Program: <b>23878</b>  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act<br><input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Location of Sampling by State: <b>AR</b>   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Reporting Units: <input checked="" type="checkbox"/> ug/m <sup>3</sup> <input checked="" type="checkbox"/> ng/m <sup>3</sup> <input checked="" type="checkbox"/> PPMV <input type="checkbox"/> Other   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Report Level: II. <input checked="" type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> Other: <input type="checkbox"/>   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Method: <b>PM10</b>  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>3C- Fixed Gas (%)</td> <td></td> </tr> <tr> <td>TO-3</td> <td></td> </tr> <tr> <td>TO-3M (Methane)</td> <td></td> </tr> <tr> <td>TO-4 (PCBs)</td> <td></td> </tr> <tr> <td>TO-13 (PAH)</td> <td></td> </tr> <tr> <td>TO-14</td> <td></td> </tr> <tr> <td>TO-15 Short List</td> <td><b>STM</b></td> </tr> </table>   |   | 3C- Fixed Gas (%) |                                       | TO-3                      |                          | TO-3M (Methane)                          |  | TO-4 (PCBs)                              |  | TO-13 (PAH)       |                     | TO-14             |             | TO-15 Short List | <b>STM</b>  |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3C- Fixed Gas (%)  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-3   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-3M (Methane)  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-4 (PCBs)  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-13 (PAH)  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-14  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TO-15 Short List   | <b>STM</b>  |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>ITEM #</th> <th>Section D Required Client Information</th> <th>Valid Media Codes</th> <th>MEDIA CODE</th> <th>PID Reading (Client only)</th> <th>COLLECTED</th> <th>Canister Pressure (Initial Field - psig)</th> <th>Canister Pressure (Final Field - psig)</th> <th>Summa Can Number</th> <th>Flow Control Number</th> <th>3C- Fixed Gas (%)</th> <th>TO-3</th> <th>TO-3M (Methane)</th> <th>TO-4 (PCBs)</th> <th>TO-13 (PAH)</th> <th>TO-14</th> <th>TO-15 Short List</th> <th>Pace Lab ID</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>AA-201602</td> <td>Tedlar Bag</td> <td>TB</td> <td>6600</td> <td>2/18/16 941 2/18/16 1541</td> <td>-28</td> <td>-1</td> <td>1058</td> <td>FC1060</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>Q1-201602</td> <td>1 Liter Summa Can</td> <td>1LC</td> <td>6600</td> <td>2/18/16 815 2/18/16 1608</td> <td>-29</td> <td>-2</td> <td>2108</td> <td>FC0262</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>Q2-201602</td> <td>6 Liter Summa Can</td> <td>6LC</td> <td>6600</td> <td>2/18/16 828 2/18/16 1615</td> <td>-28.5</td> <td>-2</td> <td>1658</td> <td>FC0012</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>Q3-201602</td> <td>Low Volume Puff</td> <td>LVP</td> <td>6600</td> <td>2/18/16 837 2/18/16 1620</td> <td>-28</td> <td>-3</td> <td>2684</td> <td>FC1055</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>Q3-201602 -Dup</td> <td>High Volume Puff</td> <td>HVP</td> <td>6600</td> <td>2/18/16 837 2/18/16 1620</td> <td>-30</td> <td>-4</td> <td>1733</td> <td>FC0512</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td>Q4-201602</td> <td>Other</td> <td>PM10</td> <td>6600</td> <td>2/18/16 850 2/18/16 1629</td> <td>-29</td> <td>-4</td> <td>2809</td> <td>FC1079</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td>Q5-201602</td> <td></td> <td></td> <td>6600</td> <td>2/18/16 859 2/18/16 1634</td> <td>-28</td> <td>-4</td> <td>0521</td> <td>FC0258</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td>Q6-201602</td> <td></td> <td></td> <td>6600</td> <td>2/18/16 909 2/18/16 1638</td> <td>-30</td> <td>-2</td> <td>0691</td> <td>FC1011</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |   | ITEM #            | Section D Required Client Information | Valid Media Codes         | MEDIA CODE               | PID Reading (Client only)                | COLLECTED                              | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number  | Flow Control Number | 3C- Fixed Gas (%) | TO-3        | TO-3M (Methane)  | TO-4 (PCBs) | TO-13 (PAH)      | TO-14       | TO-15 Short List | Pace Lab ID | 1 | AA-201602 | Tedlar Bag | TB | 6600 | 2/18/16 941 2/18/16 1541 | -28 | -1 | 1058 | FC1060 |  | X |  |  |  |  |  |  | 2 | Q1-201602 | 1 Liter Summa Can | 1LC | 6600 | 2/18/16 815 2/18/16 1608 | -29 | -2 | 2108 | FC0262 |  | X |  |  |  |  |  |  | 3 | Q2-201602 | 6 Liter Summa Can | 6LC | 6600 | 2/18/16 828 2/18/16 1615 | -28.5 | -2 | 1658 | FC0012 |  | X |  |  |  |  |  |  | 4 | Q3-201602 | Low Volume Puff | LVP | 6600 | 2/18/16 837 2/18/16 1620 | -28 | -3 | 2684 | FC1055 |  | X |  |  |  |  |  |  | 5 | Q3-201602 -Dup | High Volume Puff | HVP | 6600 | 2/18/16 837 2/18/16 1620 | -30 | -4 | 1733 | FC0512 |  | X |  |  |  |  |  |  | 6 | Q4-201602 | Other | PM10 | 6600 | 2/18/16 850 2/18/16 1629 | -29 | -4 | 2809 | FC1079 |  | X |  |  |  |  |  |  | 7 | Q5-201602 |  |  | 6600 | 2/18/16 859 2/18/16 1634 | -28 | -4 | 0521 | FC0258 |  | X |  |  |  |  |  |  | 8 | Q6-201602 |  |  | 6600 | 2/18/16 909 2/18/16 1638 | -30 | -2 | 0691 | FC1011 |  | X |  |  |  |  |  |  | 9 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 11 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 12 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ITEM #   | Section D Required Client Information                 | Valid Media Codes | MEDIA CODE                            | PID Reading (Client only) | COLLECTED                | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number                         | Flow Control Number                    | 3C- Fixed Gas (%) | TO-3                | TO-3M (Methane)   | TO-4 (PCBs) | TO-13 (PAH)      | TO-14       | TO-15 Short List | Pace Lab ID |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1  | AA-201602   | Tedlar Bag        | TB                                    | 6600                      | 2/18/16 941 2/18/16 1541 | -28                                      | -1                                     | 1058                                     | FC1060                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2  | Q1-201602   | 1 Liter Summa Can | 1LC                                   | 6600                      | 2/18/16 815 2/18/16 1608 | -29                                      | -2                                     | 2108                                     | FC0262                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3  | Q2-201602   | 6 Liter Summa Can | 6LC                                   | 6600                      | 2/18/16 828 2/18/16 1615 | -28.5                                    | -2                                     | 1658                                     | FC0012                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4  | Q3-201602   | Low Volume Puff   | LVP                                   | 6600                      | 2/18/16 837 2/18/16 1620 | -28                                      | -3                                     | 2684                                     | FC1055                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5  | Q3-201602 -Dup  | High Volume Puff  | HVP                                   | 6600                      | 2/18/16 837 2/18/16 1620 | -30                                      | -4                                     | 1733                                     | FC0512                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6  | Q4-201602   | Other             | PM10                                  | 6600                      | 2/18/16 850 2/18/16 1629 | -29                                      | -4                                     | 2809                                     | FC1079                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7  | Q5-201602   |                   |                                       | 6600                      | 2/18/16 859 2/18/16 1634 | -28                                      | -4                                     | 0521                                     | FC0258                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8  | Q6-201602   |                   |                                       | 6600                      | 2/18/16 909 2/18/16 1638 | -30                                      | -2                                     | 0691                                     | FC1011                                 |                   | X                   |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Section D</b><br>Relinquished By / Affiliation: <b>Wendy Stonestreet / Ramboll 1800/2/18/16</b><br>Date: <b>2/18/16</b><br>Time: <b>10:15 AM</b><br>Accepted By / Affiliation: <b>Wendy Stonestreet</b><br>Date: <b>2/18/16</b><br>Time: <b>10:15 AM</b>  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>Comments:</b><br><b>TO-15, Client Specific List</b>   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| <b>ORIGINAL</b>  |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SIGNATURE OF SAMPLER: <b>Wendy Stonestreet</b> DATE SIGNED (MM/DD/YY): <b>2/18/16</b><br>SIGNATURE OF ANALYST: <b>Wendy Stonestreet</b> DATE SIGNED (MM/DD/YY): <b>2/18/16</b>   |   |                   |                                       |                           |                          |  |  |  |  |                   |                     |                   |             |                  |             |                  |             |                  |             |   |           |            |    |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |                   |     |      |                          |       |    |      |        |  |   |  |  |  |  |  |  |   |           |                 |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |                |                  |     |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |       |      |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |           |  |  |      |                          |     |    |      |        |  |   |  |  |  |  |  |  |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



Document Name:  
Air Sample Condition Upon Receipt  
Document No.:  
F-MN-A-106-rev.10

Document Revised: 29June2015  
Page 1 of 1  
Issuing Authority:  
Pace Minnesota Quality Office

**Air Sample Condition Upon Receipt**

Client Name: Ramball Euron

Project #:

**WO#: 10339118**  
  
 10339118

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other:

Tracking Number: 8097 26644626, 8678 12752574

Custody Seal on Cooler/Box Present?  Yes  No      Seals Intact?  Yes  No      Optional: Proj. Due Date: Proj. Name:

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other:      Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): 0      Corrected Temp (°C): 0      Thermom. Used:  B88A912167504  72337080  
 B88A9132521491  80512447  
 Temp should be above freezing to 6°C      Correction Factor: 0      Date & Initials of Person Examining Contents: 021916

Type of ice Received  Blue  Wet  None

|  |  |  | Comments: |
|--|--|--|-----------|
| Chain of Custody Present?                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 1.        |
| Chain of Custody Filled Out?                                   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 2.        |
| Chain of Custody Relinquished?                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 3.        |
| Sampler Name and/or Signature on COC?                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 4.        |
| Samples Arrived within Hold Time?                              | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 5.        |
| Short Hold Time Analysis (<72 hr)?                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  | 6.        |
| Rush Turn Around Time Requested?                               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A |  | 7.        |
| Sufficient Volume?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 8.        |
| Correct Containers Used?                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 9.        |
| -Pace Containers Used?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  |           |
| Containers Intact?   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 10.       |
| Media: <u>Air Can</u> Airbag      Filter      TDT      Passive |  |  | 11.       |
| Sample Labels Match COC?                                       | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A |  | 12.       |

| Samples Received: |             |                    |               |        |                    |
|-------------------|-------------|--------------------|---------------|--------|--------------------|
| Canisters         |             |                    | Canisters     |        |                    |
| Sample Number     | Can ID      | Flow Controller ID | Sample Number | Can ID | Flow Controller ID |
| <u>AA</u>         | <u>1058</u> | <u>1060</u>        |               |        |                    |
| <u>Q1</u>         | <u>2101</u> | <u>0262</u>        |               |        |                    |
| <u>Q2</u>         | <u>1658</u> | <u>0612</u>        |               |        |                    |
| <u>Q3</u>         | <u>2684</u> | <u>1655</u>        |               |        |                    |
| <u>Q3 Dup</u>     | <u>1733</u> | <u>0512</u>        |               |        |                    |
| <u>Q4</u>         | <u>2809</u> | <u>1079</u>        |               |        |                    |
| <u>Q5</u>         | <u>0521</u> | <u>0258</u>        |               |        |                    |
| <u>Q6</u>         | <u>0691</u> | <u>1011</u>        |               |        |                    |

**CLIENT NOTIFICATION/RESOLUTION**      Field Data Required?  Yes  No  
 Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Comments/Resolution: \_\_\_\_\_

Project Manager Review: (Signature)      Date: 02/19/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

March 14, 2016

Wendy Stonestreet  
Ramboll Environ  
7500 College Blvd Ste 925  
Overland Park, KS 66210

RE: Project: Whirlpool Air Mont.  
Pace Project No.: 60213886

Dear Wendy Stonestreet:

Enclosed are the analytical results for sample(s) received by the laboratory on February 27, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Colleen Clyne  
colleen.clyne@pacelabs.com  
Project Manager

Enclosures

cc: Tamara Gleason, Ramboll Environ



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

525 N 8th Street, Salina, KS 67401

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Alabama Certification #40770

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

Colorado Certification #Pace

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida/NELAP Certification #: E87605

Guam Certification #: 14-008r

Georgia Certification #: 959

Georgia EPD #: Pace

Idaho Certification #: MN00064

Hawaii Certification #MN00064

Illinois Certification #: 200011

Indiana Certification#C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Kentucky Dept of Envi. Protection - WW #:90062

Louisiana DEQ Certification #: 3086

Louisiana DHH #: LA140001

Maine Certification #: 2013011

Maryland Certification #: 322

Michigan DEPH Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New York Certification #: 11647

North Carolina Certification #: 530

North Carolina State Public Health #: 27700

North Dakota Certification #: R-036

Ohio EPA #: 4150

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Oregon Certification #: MN300001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Saipan (CNMI) #:MP0003

South Carolina #:74003001

Texas Certification #: T104704192

Tennessee Certification #: 02818

Utah Certification #: MN000642013-4

Virginia DGS Certification #: 251

Virginia/VELAP Certification #: Pace

Washington Certification #: C486

West Virginia Certification #: 382

West Virginia DHHR #:9952C

Wisconsin Certification #: 999407970

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

| Lab ID      | Sample ID        | Matrix | Date Collected | Date Received  |
|-------------|------------------|--------|----------------|----------------|
| 60213886001 | Q1-SS-201602-DUP | Air    | 02/25/16 16:40 | 02/27/16 10:20 |
| 60213886002 | Q2-SS-201602     | Air    | 02/25/16 17:30 | 02/27/16 10:20 |
| 60213886003 | Q3-SS-201602     | Air    | 02/25/16 18:10 | 02/27/16 10:20 |
| 60213886004 | Q4-SS-201602     | Air    | 02/25/16 15:45 | 02/27/16 10:20 |
| 60213886005 | Q5-SS-201602     | Air    | 02/25/16 19:00 | 02/27/16 10:20 |
| 60213886006 | Q6-SS-201602     | Air    | 02/25/16 19:45 | 02/27/16 10:20 |
| 60213886007 | Q1-SS-201602     | Air    | 02/25/16 16:40 | 02/27/16 10:20 |

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### SAMPLE ANALYTE COUNT

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

| Lab ID      | Sample ID        | Method | Analysts | Analytes Reported | Laboratory |
|-------------|------------------|--------|----------|-------------------|------------|
| 60213886001 | Q1-SS-201602-DUP | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886002 | Q2-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886003 | Q3-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886004 | Q4-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886005 | Q5-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886006 | Q6-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |
| 60213886007 | Q1-SS-201602     | TO-15  | DR1      | 9                 | PASI-M     |

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## PROJECT NARRATIVE

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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**Date:** March 14, 2016

**Q3-SS-201602 (Lab ID: 60213886003)**

- A3: This result is reported from a serial dilution.

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## PROJECT NARRATIVE

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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**Method:** TO-15

**Description:** TO15 MSV AIR

**Client:** Environ\_AR

**Date:** March 14, 2016

**General Information:**

7 samples were analyzed for TO-15. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

**Hold Time:**

The samples were analyzed within the method required hold times with any exceptions noted below.

**Initial Calibrations (including MS Tune as applicable):**

All criteria were within method requirements with any exceptions noted below.

**Continuing Calibration:**

All criteria were within method requirements with any exceptions noted below.

**Internal Standards:**

All internal standards were within QC limits with any exceptions noted below.

**Method Blank:**

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

**Laboratory Control Spike:**

All laboratory control spike compounds were within QC limits with any exceptions noted below.

**Additional Comments:**

This data package has been reviewed for quality and completeness and is approved for release.

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

Sample: **Q1-SS-201602-DUP** Lab ID: **60213886001** Collected: 02/25/16 16:40 Received: 02/27/16 10:20 Matrix: Air

| Parameters               | Results     | Units | Report |      |    | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|-------------|-------|--------|------|----|----------|----------------|----------|------|
|                          |             |       | Limit  | MDL  | DF |          |                |          |      |
| <b>TO15 MSV AIR</b>      |             |       |        |      |    |          |                |          |      |
| Analytical Method: TO-15 |             |       |        |      |    |          |                |          |      |
| 1,1-Dichloroethane       | ND          | ug/m3 | 1.6    | 0.31 | 2  |          | 03/10/16 20:15 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND          | ug/m3 | 0.82   | 0.41 | 2  |          | 03/10/16 20:15 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND          | ug/m3 | 1.6    | 0.48 | 2  |          | 03/10/16 20:15 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND          | ug/m3 | 1.6    | 0.49 | 2  |          | 03/10/16 20:15 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND          | ug/m3 | 1.6    | 0.77 | 2  |          | 03/10/16 20:15 | 156-60-5 |      |
| Tetrachloroethene        | ND          | ug/m3 | 1.4    | 0.56 | 2  |          | 03/10/16 20:15 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | <b>64.0</b> | ug/m3 | 2.2    | 0.49 | 2  |          | 03/10/16 20:15 | 71-55-6  |      |
| Trichloroethene          | ND          | ug/m3 | 1.1    | 0.55 | 2  |          | 03/10/16 20:15 | 79-01-6  |      |
| Vinyl chloride           | ND          | ug/m3 | 0.52   | 0.39 | 2  |          | 03/10/16 20:15 | 75-01-4  |      |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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**Sample: Q2-SS-201602**      **Lab ID: 60213886002**      Collected: 02/25/16 17:30      Received: 02/27/16 10:20      Matrix: Air

| Parameters               | Results      | Units | Report |      |      | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|--------------|-------|--------|------|------|----------|----------------|----------|------|
|                          |              |       | Limit  | MDL  | DF   |          |                |          |      |
| <b>TO15 MSV AIR</b>      |              |       |        |      |      |          |                |          |      |
| Analytical Method: TO-15 |              |       |        |      |      |          |                |          |      |
| 1,1-Dichloroethane       | ND           | ug/m3 | 1.3    | 0.25 | 1.61 |          | 03/10/16 22:02 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND           | ug/m3 | 0.66   | 0.33 | 1.61 |          | 03/10/16 22:02 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND           | ug/m3 | 1.3    | 0.38 | 1.61 |          | 03/10/16 22:02 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | <b>2.2</b>   | ug/m3 | 1.3    | 0.40 | 1.61 |          | 03/10/16 22:02 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND           | ug/m3 | 1.3    | 0.62 | 1.61 |          | 03/10/16 22:02 | 156-60-5 |      |
| Tetrachloroethene        | <b>0.75J</b> | ug/m3 | 1.1    | 0.45 | 1.61 |          | 03/10/16 22:02 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | <b>132</b>   | ug/m3 | 1.8    | 0.40 | 1.61 |          | 03/10/16 22:02 | 71-55-6  |      |
| Trichloroethene          | <b>552</b>   | ug/m3 | 4.4    | 2.2  | 8.05 |          | 03/10/16 22:25 | 79-01-6  |      |
| Vinyl chloride           | ND           | ug/m3 | 0.42   | 0.31 | 1.61 |          | 03/10/16 22:02 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

**Sample: Q3-SS-201602**      **Lab ID: 60213886003**      Collected: 02/25/16 18:10      Received: 02/27/16 10:20      Matrix: Air

Comments: • This result is reported from a serial dilution.

| Parameters               | Results      | Units | Report Limit | MDL  | DF   | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|--------------|-------|--------------|------|------|----------|----------------|----------|------|
| <b>TO15 MSV AIR</b>      |              |       |              |      |      |          |                |          |      |
| Analytical Method: TO-15 |              |       |              |      |      |          |                |          |      |
| 1,1-Dichloroethane       | <b>131J</b>  | ug/m3 | 407          | 77.9 | 496  |          | 03/10/16 23:10 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND           | ug/m3 | 203          | 102  | 496  |          | 03/10/16 23:10 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND           | ug/m3 | 402          | 118  | 496  |          | 03/10/16 23:10 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | <b>4150</b>  | ug/m3 | 402          | 122  | 496  |          | 03/10/16 23:10 | 156-59-2 |      |
| trans-1,2-Dichloroethene | <b>673</b>   | ug/m3 | 402          | 190  | 496  |          | 03/10/16 23:10 | 156-60-5 |      |
| Tetrachloroethene        | ND           | ug/m3 | 342          | 138  | 496  |          | 03/10/16 23:10 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND           | ug/m3 | 551          | 123  | 496  |          | 03/10/16 23:10 | 71-55-6  |      |
| Trichloroethene          | ND           | ug/m3 | 273          | 137  | 496  |          | 03/10/16 23:10 | 79-01-6  |      |
| Vinyl chloride           | <b>60000</b> | ug/m3 | 516          | 387  | 1984 |          | 03/11/16 15:21 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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**Sample: Q4-SS-201602**      **Lab ID: 60213886004**      Collected: 02/25/16 15:45      Received: 02/27/16 10:20      Matrix: Air

| Parameters               | Results | Units                    | Report |      |      | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|---------|--------------------------|--------|------|------|----------|----------------|----------|------|
|                          |         |                          | Limit  | MDL  | DF   |          |                |          |      |
| <b>TO15 MSV AIR</b>      |         | Analytical Method: TO-15 |        |      |      |          |                |          |      |
| 1,1-Dichloroethane       | ND      | ug/m3                    | 1.2    | 0.23 | 1.49 |          | 03/10/16 20:41 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND      | ug/m3                    | 0.61   | 0.31 | 1.49 |          | 03/10/16 20:41 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND      | ug/m3                    | 1.2    | 0.35 | 1.49 |          | 03/10/16 20:41 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND      | ug/m3                    | 1.2    | 0.37 | 1.49 |          | 03/10/16 20:41 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND      | ug/m3                    | 1.2    | 0.57 | 1.49 |          | 03/10/16 20:41 | 156-60-5 |      |
| Tetrachloroethene        | ND      | ug/m3                    | 1.0    | 0.41 | 1.49 |          | 03/10/16 20:41 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND      | ug/m3                    | 1.7    | 0.37 | 1.49 |          | 03/10/16 20:41 | 71-55-6  |      |
| Trichloroethene          | ND      | ug/m3                    | 0.82   | 0.41 | 1.49 |          | 03/10/16 20:41 | 79-01-6  |      |
| Vinyl chloride           | ND      | ug/m3                    | 0.39   | 0.29 | 1.49 |          | 03/10/16 20:41 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

**Sample: Q5-SS-201602**      **Lab ID: 60213886005**      Collected: 02/25/16 19:00      Received: 02/27/16 10:20      Matrix: Air

| Parameters               | Results      | Units | Report |      |      | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|--------------|-------|--------|------|------|----------|----------------|----------|------|
|                          |              |       | Limit  | MDL  | DF   |          |                |          |      |
| <b>TO15 MSV AIR</b>      |              |       |        |      |      |          |                |          |      |
| Analytical Method: TO-15 |              |       |        |      |      |          |                |          |      |
| 1,1-Dichloroethane       | ND           | ug/m3 | 26.4   | 5.1  | 32.2 |          | 03/10/16 22:48 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND           | ug/m3 | 13.2   | 6.6  | 32.2 |          | 03/10/16 22:48 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND           | ug/m3 | 26.1   | 7.7  | 32.2 |          | 03/10/16 22:48 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND           | ug/m3 | 26.1   | 7.9  | 32.2 |          | 03/10/16 22:48 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND           | ug/m3 | 26.1   | 12.4 | 32.2 |          | 03/10/16 22:48 | 156-60-5 |      |
| Tetrachloroethene        | <b>13.3J</b> | ug/m3 | 22.2   | 9.0  | 32.2 |          | 03/10/16 22:48 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | ND           | ug/m3 | 35.7   | 8.0  | 32.2 |          | 03/10/16 22:48 | 71-55-6  |      |
| Trichloroethene          | <b>1590</b>  | ug/m3 | 17.7   | 8.9  | 32.2 |          | 03/10/16 22:48 | 79-01-6  |      |
| Vinyl chloride           | ND           | ug/m3 | 8.4    | 6.3  | 32.2 |          | 03/10/16 22:48 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

**Sample: Q6-SS-201602**      **Lab ID: 60213886006**      Collected: 02/25/16 19:45      Received: 02/27/16 10:20      Matrix: Air

| Parameters               | Results     | Units | Report |      |      | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|-------------|-------|--------|------|------|----------|----------------|----------|------|
|                          |             |       | Limit  | MDL  | DF   |          |                |          |      |
| <b>TO15 MSV AIR</b>      |             |       |        |      |      |          |                |          |      |
| Analytical Method: TO-15 |             |       |        |      |      |          |                |          |      |
| 1,1-Dichloroethane       | ND          | ug/m3 | 1.3    | 0.24 | 1.55 |          | 03/10/16 21:35 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND          | ug/m3 | 0.64   | 0.32 | 1.55 |          | 03/10/16 21:35 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND          | ug/m3 | 1.3    | 0.37 | 1.55 |          | 03/10/16 21:35 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND          | ug/m3 | 1.3    | 0.38 | 1.55 |          | 03/10/16 21:35 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND          | ug/m3 | 1.3    | 0.60 | 1.55 |          | 03/10/16 21:35 | 156-60-5 |      |
| Tetrachloroethene        | <b>1.3</b>  | ug/m3 | 1.1    | 0.43 | 1.55 |          | 03/10/16 21:35 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | <b>17.7</b> | ug/m3 | 1.7    | 0.38 | 1.55 |          | 03/10/16 21:35 | 71-55-6  |      |
| Trichloroethene          | ND          | ug/m3 | 0.85   | 0.43 | 1.55 |          | 03/10/16 21:35 | 79-01-6  |      |
| Vinyl chloride           | ND          | ug/m3 | 0.40   | 0.30 | 1.55 |          | 03/10/16 21:35 | 75-01-4  |      |

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## ANALYTICAL RESULTS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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**Sample: Q1-SS-201602**      **Lab ID: 60213886007**      Collected: 02/25/16 16:40      Received: 02/27/16 10:20      Matrix: Air

| Parameters               | Results     | Units | Report |      |      | Prepared | Analyzed       | CAS No.  | Qual |
|--------------------------|-------------|-------|--------|------|------|----------|----------------|----------|------|
|                          |             |       | Limit  | MDL  | DF   |          |                |          |      |
| <b>TO15 MSV AIR</b>      |             |       |        |      |      |          |                |          |      |
| Analytical Method: TO-15 |             |       |        |      |      |          |                |          |      |
| 1,1-Dichloroethane       | ND          | ug/m3 | 1.2    | 0.23 | 1.49 |          | 03/10/16 21:08 | 75-34-3  |      |
| 1,2-Dichloroethane       | ND          | ug/m3 | 0.61   | 0.31 | 1.49 |          | 03/10/16 21:08 | 107-06-2 |      |
| 1,1-Dichloroethene       | ND          | ug/m3 | 1.2    | 0.35 | 1.49 |          | 03/10/16 21:08 | 75-35-4  |      |
| cis-1,2-Dichloroethene   | ND          | ug/m3 | 1.2    | 0.37 | 1.49 |          | 03/10/16 21:08 | 156-59-2 |      |
| trans-1,2-Dichloroethene | ND          | ug/m3 | 1.2    | 0.57 | 1.49 |          | 03/10/16 21:08 | 156-60-5 |      |
| Tetrachloroethene        | ND          | ug/m3 | 1.0    | 0.41 | 1.49 |          | 03/10/16 21:08 | 127-18-4 |      |
| 1,1,1-Trichloroethane    | <b>86.1</b> | ug/m3 | 1.7    | 0.37 | 1.49 |          | 03/10/16 21:08 | 71-55-6  |      |
| Trichloroethene          | ND          | ug/m3 | 0.82   | 0.41 | 1.49 |          | 03/10/16 21:08 | 79-01-6  |      |
| Vinyl chloride           | ND          | ug/m3 | 0.39   | 0.29 | 1.49 |          | 03/10/16 21:08 | 75-01-4  |      |

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### QUALITY CONTROL DATA

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

QC Batch: AIR/25416

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 60213886001, 60213886002, 60213886003, 60213886004, 60213886005, 60213886006, 60213886007

METHOD BLANK: 2208084

Matrix: Air

Associated Lab Samples: 60213886001, 60213886002, 60213886003, 60213886004, 60213886005, 60213886006, 60213886007

| Parameter                | Units | Blank Result | Reporting Limit | MDL  | Analyzed       | Qualifiers |
|--------------------------|-------|--------------|-----------------|------|----------------|------------|
| 1,1,1-Trichloroethane    | ug/m3 | ND           | 1.1             | 0.25 | 03/10/16 18:27 |            |
| 1,1-Dichloroethane       | ug/m3 | ND           | 0.82            | 0.16 | 03/10/16 18:27 |            |
| 1,1-Dichloroethene       | ug/m3 | ND           | 0.81            | 0.24 | 03/10/16 18:27 |            |
| 1,2-Dichloroethane       | ug/m3 | ND           | 0.41            | 0.20 | 03/10/16 18:27 |            |
| cis-1,2-Dichloroethene   | ug/m3 | ND           | 0.81            | 0.25 | 03/10/16 18:27 |            |
| Tetrachloroethene        | ug/m3 | ND           | 0.69            | 0.28 | 03/10/16 18:27 |            |
| trans-1,2-Dichloroethene | ug/m3 | ND           | 0.81            | 0.38 | 03/10/16 18:27 |            |
| Trichloroethene          | ug/m3 | ND           | 0.55            | 0.28 | 03/10/16 18:27 |            |
| Vinyl chloride           | ug/m3 | ND           | 0.26            | 0.20 | 03/10/16 18:27 |            |

LABORATORY CONTROL SAMPLE: 2208085

| Parameter                | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| 1,1,1-Trichloroethane    | ug/m3 | 55.5        | 48.8       | 88        | 60-143       |            |
| 1,1-Dichloroethane       | ug/m3 | 41.2        | 35.9       | 87        | 62-139       |            |
| 1,1-Dichloroethene       | ug/m3 | 40.3        | 36.6       | 91        | 62-135       |            |
| 1,2-Dichloroethane       | ug/m3 | 41.2        | 35.6       | 86        | 61-144       |            |
| cis-1,2-Dichloroethene   | ug/m3 | 40.3        | 39.6       | 98        | 65-139       |            |
| Tetrachloroethene        | ug/m3 | 69          | 69.1       | 100       | 60-142       |            |
| trans-1,2-Dichloroethene | ug/m3 | 40.3        | 38.8       | 96        | 67-137       |            |
| Trichloroethene          | ug/m3 | 54.6        | 52.9       | 97        | 60-144       |            |
| Vinyl chloride           | ug/m3 | 26          | 23.7       | 91        | 63-135       |            |

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Whirlpool Air Mont.

Pace Project No.: 60213886

| Lab ID      | Sample ID        | QC Batch Method | QC Batch  | Analytical Method | Analytical Batch |
|-------------|------------------|-----------------|-----------|-------------------|------------------|
| 60213886001 | Q1-SS-201602-DUP | TO-15           | AIR/25416 |                   |                  |
| 60213886002 | Q2-SS-201602     | TO-15           | AIR/25416 |                   |                  |
| 60213886003 | Q3-SS-201602     | TO-15           | AIR/25416 |                   |                  |
| 60213886004 | Q4-SS-201602     | TO-15           | AIR/25416 |                   |                  |
| 60213886005 | Q5-SS-201602     | TO-15           | AIR/25416 |                   |                  |
| 60213886006 | Q6-SS-201602     | TO-15           | AIR/25416 |                   |                  |
| 60213886007 | Q1-SS-201602     | TO-15           | AIR/25416 |                   |                  |

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

WO#: 60213886



60213886

**AIR: CHAIN-OF-CUSTODY / Ana**  
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields r...



|   |                        |  |       |   |       |   |         |
|---|------------------------|--|-------|---|-------|---|---------|
| <b>Section A</b><br>Required Client Information:<br>Company: Ramboll Environ<br>Address: 7500 College Blvd, Suite 225, Overland Park, KS 66210<br>Email To: wstonestreet@ramboll.com<br>Phone: 913-553-8725<br>Requested Due Date/TAT: standard |                        | <b>Section B</b><br>Required Project Information:<br>Report To: rgleason@ramboll.com<br>Copy To: wstonestreet@ramboll.com<br>Project Name: Ramboll Air Ment.<br>Purchase Order No.:<br>Project Number: |       | <b>Section C</b><br>Invoice Information:<br>Attention: Tamara Gleason<br>Company Name: Ramboll Environ<br>Address: 250 Monroe Ave, NW Grand Rapids, Michigan, 49503<br>Pace Quote Reference:<br>Pace Project Manager/Sales Rep. Colleen Clyne<br>Pace Profile #: 7444 |       | Page: 24000 of 1<br>Program: <input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act<br><input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RORA <input checked="" type="checkbox"/> Other<br>Location of Sampling by State: AR<br>Reporting Units: <input checked="" type="checkbox"/> mg/m <sup>3</sup> <input checked="" type="checkbox"/> ppbV <input checked="" type="checkbox"/> ppmV <input type="checkbox"/> Other<br>Report Level: II, X, III, IV, Other |         |
| <b>Section D</b> Required Client Information<br><b>AIR SAMPLE ID</b><br>Sample IDs MUST BE UNIQUE   |                        | <b>COLLECTED</b><br>MEDIA CODE: TB, 1L, 6L, LVP, HVP, PM10<br>Tester Bag, 1 Liter Summa Can, 6L, Low Volume Puff, High Volume Puff, Other<br>PID Reading (Client only):<br>MEDIA CODE:                 |       | Summa Can Number<br>Canister Pressure (Initial Field - psig)<br>Canister Pressure (Final Field - psig)<br>Flow Control Number   |       | Method:<br>PM10, BC Fixed Gas (%), TO-3, TO-3M (Methane), TO-13 (PAH), TO-14, TO-15, TO-16 Short List, SIM<br>Pace Lab ID: 001, 002, 003, 004, 005, 006, 007  |         |
| #   | ITEM                   | DATE   | TIME  | DATE  | TIME  | DATE  | TIME    |
| 1   | Q1 - SS - 201602 - DUP | 2/25/16  | 10:00 | 2/25/16   | 10:40 | 29.5  | FC 0054 |
| 2   | Q2 - SS - 201602       | 2/25/16  | 10:51 | 2/25/16   | 17:30 | 28  | FC 0382 |
| 3   | Q3 - SS - 201602       | 2/25/16  | 11:43 | 2/25/16   | 18:10 | 30  | FC 0392 |
| 4   | Q4 - SS - 201602       | 2/25/16  | 08:42 | 2/25/16   | 15:45 | 30  | FC 0434 |
| 5   | Q5 - SS - 201602       | 2/25/16  | 12:25 | 2/25/16   | 19:00 | 30  | FC 0016 |
| 6   | Q6 - SS - 201602       | 2/25/16  | 13:04 | 2/25/16   | 19:45 | 29  | FC 0102 |
| 7   | Q1 - SS - 201602       | 2/25/16  | 10:00 | 2/25/16   | 16:40 | 29.5  | FC 0054 |
| 8   |                        |  |       |   |       |   |         |
| 9   |                        |  |       |   |       |   |         |
| 10  |                        |  |       |   |       |   |         |
| 11  |                        |  |       |   |       |   |         |
| 12  |                        |  |       |   |       |   |         |

Comments:  
 10-15, Client Specific List  
 \* Per Nick - add 3C Helium to samples. CBC 2/29/16  
 ORIGINAL

RELINQUISHED BY / AFFILIATION: Pace Ramboll Environ  
 DATE: 2/26/16  
 TIME: 14:45  
 ACCEPTED BY / AFFILIATION: Nick Zurweller  
 DATE SIGNED: 2/26/16  
 TIME: 10:20

SAMPLER NAME AND SIGNATURE:  
 NICK ZURWELLER  
 DATE SIGNED: 2/26/16

# Chain of Custody



1034001Z

Workorder: 60213886    Workorder Name: Whirlpool Air Mont.    Owner Received Date: 2/27/2016 Results Requested By: 3/10/2016

| Report To  |                  | Subcontract To  |                    | Requested Analysis |              |                      |                 |        |                |  |   |           |   |     |              |
|--|------------------|---|--------------------|--------------------|--------------|----------------------|-----------------|--------|----------------|--|---|-----------|---|-----|--------------|
| Colleen Clyne<br>Pace Analytical Services, Inc.<br>9608 Loiret Blvd.<br>Lenexa, KS 66219<br>Phone (913)599-5665<br>Fax (913)599-1759 |                  | Pace Analytical Minnesota<br>1700 Elm Street<br>Suite 200<br>Minneapolis, MN 55414<br>Phone (612)607-1700 |                    |                    |              |                      |                 |        |                |  |   |           |   |     |              |
| Item   | Sample ID        | Sample Type   | Collect Date/Time  | Lab ID             | Matrix       | Preserved Containers |                 |        | *TO-15 SIM     |  |   | 3C Helium |   |     | LAB USE ONLY |
| 1  | Q1-SS-201602-DUP | PS  | 2/25/2016 16:40    | 60213886001        | Air          | 2                    |                 |        |                |  | X | X         | X | 001 |              |
| 2  | Q2-SS-201602     | PS  | 2/25/2016 17:30    | 60213886002        | Air          | 2                    |                 |        |                |  | X | X         | X | 002 |              |
| 3  | Q3-SS-201602     | PS  | 2/25/2016 18:10    | 60213886003        | Air          | 2                    |                 |        |                |  | X | X         | X | 003 |              |
| 4  | Q4-SS-201602     | PS  | 2/25/2016 15:45    | 60213886004        | Air          | 2                    |                 |        |                |  | X | X         | X | 004 |              |
| 5  | Q5-SS-201602     | PS  | 2/25/2016 19:00    | 60213886005        | Air          | 2                    |                 |        |                |  | X | X         | X | 005 |              |
| 6  | Q6-SS-201602     | PS  | 2/25/2016 19:45    | 60213886006        | Air          | 2                    |                 |        |                |  | X | X         | X | 006 |              |
| 7  | Q1-SS-201602     | PS  | 2/25/2016 16:40    | 60213886007        | Air          | 2                    |                 |        |                |  | X | X         | X | 007 |              |
| Comments   |                  |   |                    |                    |              |                      |                 |        |                |  |   |           |   |     |              |
| *Custom List (attached)  |                  |   |                    |                    |              |                      |                 |        |                |  |   |           |   |     |              |
| Transfers  | Released By      | Date/Time   | Received           | Date/Time          |              |                      |                 |        |                |  |   |           |   |     |              |
| 1  |                  |   | <i>[Signature]</i> | 2/27/2016          |              |                      |                 |        |                |  |   |           |   |     |              |
| 2  |                  |   |                    |                    |              |                      |                 |        |                |  |   |           |   |     |              |
| 3  |                  |   |                    |                    |              |                      |                 |        |                |  |   |           |   |     |              |
| Cooler Temperature on Receipt  |                  |   |                    | °C                 | Custody Seal | Y or N               | Received on Ice | Y or N | Samples Intact |  |   | Y or N    |   |     |              |



# AIR: CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Company: Ramboll Environ  
 Address: 7500 College Blvd, Suite 925, Overland Park, KS 66210  
 Email To: wstonestreet@ramboll.com  
 Phone: 913-553-8723  
 Requested Due Date/TAT: Standard

Report To: T Gleason  
 Copy To: wstonestreet@ramboll.com  
 Address: 250 Monroe Ave, NW Grand Rapids, Michigan, 49503  
 Project Name: Whirlpool Air Mont.  
 Project Number: 7444

Program:  Superfund  Emissions  Clean Air Act  
 Voluntary Clean Up  Dry Clean  RCRA  Other

Location of Sampling by State: AR  
 Reporting Units:  ug/m<sup>3</sup>  mg/m<sup>3</sup>  PPMV  Other

Method:  II  III  IV  Other

| ITEM # | Valid Media Codes<br>MEDIA<br>Teflar Bag<br>1 Liter Summa Can<br>6 Liter Summa Can<br>Low Volume Puff<br>High Volume Puff<br>Other | AIR SAMPLE ID<br>Sample IDs MUST BE UNIQUE | COLLECTED  |                           | Canister Pressure (Initial Field - psig) | Canister Pressure (Final Field - psig) | Summa Can Number | Flow Control Number | Pace Lab ID |
|--------|--|--|------------|---------------------------|--|--|------------------|---------------------|-------------|
|        |  |  | MEDIA CODE | PID Reading (Client only) |  |  |                  |                     |             |
| 1      |  | Q1-SS-201602-DUP                           | 6LCO       | 2/25/16 10:00             | 29.5                                     | 5.5                                    | 1480             | FC 0054             | X           |
| 2      |  | Q2-SS-201602                               | 6LCO       | 2/25/16 10:57             | 28                                       | 5                                      | 2062             | FC 0382             | X           |
| 3      |  | Q3-SS-201602                               | 6LCO.1     | 2/25/16 11:43             | 30                                       | 5                                      | 2755             | FC 0392             | X           |
| 4      |  | Q4-SS-201602                               | 6LCO.7     | 2/25/16 08:42             | 30                                       | 6                                      | 2140             | FC 0434             | X           |
| 5      |  | Q5-SS-201602                               | 6LCO       | 2/25/16 12:25             | 30                                       | 5.5                                    | 3708             | FC 0016             | X           |
| 6      |  | Q6-SS-201602                               | 6LCO.1     | 2/25/16 13:04             | 29                                       | 5.5                                    | 2829             | FC 0102             | X           |
| 7      |  | Q1-SS-201602                               | 6LCO       | 2/25/16 10:00             | 29.5                                     | 5.5                                    | 1602             | FC 0054             | X           |
| 8      |  |  |            |                           |  |  |                  |                     |             |
| 9      |  |  |            |                           |  |  |                  |                     |             |
| 10     |  |  |            |                           |  |  |                  |                     |             |
| 11     |  |  |            |                           |  |  |                  |                     |             |
| 12     |  |  |            |                           |  |  |                  |                     |             |

Comments: 10-15, Client Specific List

RELINQUISHED BY / AFFILIATION: Eric Zerk / Ramboll Environ  
 DATE: 2/25/16  
 TIME: 14:45

ACCEPTED BY / AFFILIATION: [Signature]  
 DATE: 2/26/16  
 TIME: 10:20

SAMPLER NAME AND SIGNATURE: Nick Zurweller  
 PRINT Name of SAMPLER: Nick Zurweller  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 2/26/16

Temp in °C: \_\_\_\_\_  
 Received on Ice: Y/N  
 Custody Sealed Cooler: Y/N  
 Samples Intact: Y/N

ORIGINAL

**Air Sample Condition Upon Receipt**

Client Name: Bambell Environ Project #: \_\_\_\_\_

**WO#: 10340012**



10340012

Courier:  Fed Ex  UPS  Speedee  Client  
 Commercial  Pace  Other: \_\_\_\_\_

Tracking Number: 78247023 9150, 8047 3340 7081

Custody Seal on Cooler/Box Present?  Yes  No Seals Intact?  Yes  No

Optional: Proj. Due Date: \_\_\_\_\_ Proj. Name: \_\_\_\_\_

Packing Material:  Bubble Wrap  Bubble Bags  Foam  None  Tin Can  Other: \_\_\_\_\_ Temp Blank rec:  Yes  No

Temp. (TO17 and TO13 samples only) (°C): X Corrected Temp (°C): 1 Thermom. Used:  B88A912167504  72337080  
 B88A9132521491  80512447  
 Temp should be above freezing to 6°C Correction Factor: 1 Date & Initials of Person Examining Contents: MM 2/29/16

Type of ice Received  Blue  Wet  None

**Comments:**

|  |  |     |
|--|--|-----|
| Chain of Custody Present?                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 1.  |
| Chain of Custody Filled Out?             | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 2.  |
| Chain of Custody Relinquished?           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 3.  |
| Sampler Name and/or Signature on COC?    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 4.  |
| Samples Arrived within Hold Time?        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | 5.  |
| Short Hold Time Analysis (<72 hr)?       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 6.  |
| Rush Turn Around Time Requested?         | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 7.  |
| Sufficient Volume?                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 8.  |
| Correct Containers Used?                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 9.  |
| -Pace Containers Used?                   | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            |     |
| Containers Intact?                       | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 10. |
| Media: Air Can Airbag Filter TDT Passive |  | 11. |
| Sample Labels Match COC?                 | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A            | 12. |

| Samples Received: |        |                    |               |        |                    |
|-------------------|--------|--------------------|---------------|--------|--------------------|
| Canisters         |        |                    | Canisters     |        |                    |
| Sample Number     | Can ID | Flow Controller ID | Sample Number | Can ID | Flow Controller ID |
| Q1-SS-201602      | 1480   | 0054               |               |        |                    |
| Q2-SS-201602      | 2062   | 0382               |               |        |                    |
| Q3-SS-201602      | 2755   | 0392               |               |        |                    |
| Q4-SS-201602      | 2140   | 0434               |               |        |                    |
| Q5-SS-201602      | 2708   | 0016               |               |        |                    |
| Q6-SS-201602      | 2829   | 0102               |               |        |                    |
| Q1-SS-201602      | 1602   | 0054               |               |        |                    |
|                   |        |                    |               |        |                    |
|                   |        |                    |               |        |                    |

**CLIENT NOTIFICATION/RESOLUTION**

Person Contacted: Colleen Date/Time: 02/29/16 Field Data Required?  Yes  No

Comments/Resolution: Added 3c (He) per Colleen / client.

Per Tamara cancel 3C Helium analysis. CBC 03/01/16

Project Manager Review: D Date: 03/01/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)