



COPY

ARCADIS U.S., Inc.
1100 Olive Way
Suite 800
Seattle
Washington 98101
Tel 206 325 5254
Fax 206 325 8218
www.arcadis-us.com

Claude Williams
Puget Sound Clean Air Agency
1904 3rd Avenue, Suite 105
Seattle, Washington 98101

RECEIVED

JUL 18 2013

DEPT OF ECOLOGY
TCP - NWRO

ENVIRONMENT

Subject:

Approval for Direct Discharge of Vapor Stream (NOC # 10273)
Former ARCO Facility No. 5544
19918 68th Avenue South
Kent, Washington 98032

Date:

July 17, 2013

Dear Mr. Williams:

Contact:

Richard Rodriguez

On behalf of BP West Coast Products, LLC. (BP), ARCADIS U.S., Inc. (ARCADIS) is submitting this letter for the former ARCO facility located at 19918 68th Avenue South in Kent, Washington (the site). This letter is requesting approval for direct discharge of the vapor stream from the Air Sparge (AS) / Soil Vapor Extraction (SVE) System operating at the site since November 2012 under Puget Sound Clean Air Agency (PSCAA) Notice of Construction (NOC) number 10273.

Phone:

206-726-4721

Email:

richard.rodriquez@arcadis-us.com

The AS/SVE system startup and testing commenced in December 2012. Upon completion of system startup and optimization, operation and maintenance (O&M) of the system has been performed on a monthly basis in accordance with the conditions specified in NOC #10273. Monthly catalytic oxidizer (CATOX) influent and effluent vapor samples have been collected and analyzed for total hydrocarbons (THC) as gasoline and benzene, toluene, ethylbenzene and total xylenes (BTEX collectively) by Environmental Protection Agency Method TO-3. A summary of the influent and effluent data for the last 3 months is provided in **Table 1**. Laboratory Analytical Reports for the last three months are also enclosed with this letter.

Our ref:

GP09BPNA.WA39

The concentration of THC as gasoline in the influent vapor stream prior to catalytic oxidation has been less than 50 ppmv for three consecutive months. Based on condition number 8 of NOC # 10273, ARCADIS is requesting approval for direct discharge of the vapor stream. ARCADIS will continue to monitor the concentration of vapor entering the stack monthly. If vapor concentrations exceed 50 ppmv limit, the CATOX will be returned to service and effluent vapor will be redirected to the CATOX and treated prior to discharge in accordance with permit requirements.

Imagine the result

ARCADIS

COPY

Claude Williams
July 17, 2013

Should you have any questions or if ARCADIS can be of further assistance, please contact Richard Rodriguez at 206-726-4721.

Sincerely,

ARCADIS U.S., Inc.



Richard Rodriguez
Staff Geologist

Enclosures:

Table 1

Laboratory Analytical Reports

Copies:

Libby Goldstein -- Dept of Ecology

**Table 1
Influent and Effluent Sample Summary
WA-5544**

19918 68th Avenue South, Kent, WA 98032

<i>Date</i>	<i>Influent Concentrations</i>		<i>Effluent Concentrations</i>	
	<i>THCg (ppmv)</i>	<i>Benzene (ppmv)</i>	<i>THCg (ppmv)</i>	<i>Benzene (ppmv)</i>
04/22/13	3.90	<0.16	<1.9	<0.19
05/17/13	0.81	0.014	0.34	<0.0019
06/14/13	2.90	<0.19	2.00	<0.19

Notes:

Influent = Influent to catalytic oxidizer (CATOX)

Effluent = Oxidizer stack effluent

THCg = Total hydrocarbons as gasoline

ppmv = parts per million by volume

THCg and Benzene analyzed by Environmental Protection Agency Method TO-3

May 03, 2013

Rick Rodriguez
Arcadis U.S., Inc.
2300 Eastlake Ave. E
Seattle, WA 98102

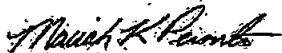
RE: Project: WA-5544
Pace Project No.: 10226428

Dear Rick Rodriguez:

Enclosed are the analytical results for sample(s) received by the laboratory on April 23, 2013. 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,



Mariah Peronto

mariah.peronto@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Arcadis U.S., Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: WA-5544
Pace Project No.: 10226428

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

SAMPLE SUMMARY

Project: WA-5544
Pace Project No.: 10226428

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10226428001	EFF-1530042213	Air	04/22/13 15:30	04/23/13 10:50
10226428002	INF-1535042213	Air	04/22/13 15:35	04/23/13 10:50
10226428003	Unlabeled PACE1383	Air	04/22/13 00:00	04/23/13 10:50

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: WA-5544
Pace Project No.: 10226428

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10226428001	EFF-1530042213	TO-3 Air	RTP	6	PASI-M
10226428002	INF-1535042213	TO-3 Air	RTP	6	PASI-M

ANALYTICAL RESULTS

Project: WA-5544
Pace Project No.: 10226428

Sample: EFF-1530042213		Lab ID: 10226428001	Collected: 04/22/13 15:30	Received: 04/23/13 10:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX CAN		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.19	1.87		05/01/13 12:48	71-43-2	
Ethylbenzene	ND	ppmv	0.19	1.87		05/01/13 12:48	100-41-4	
THC as Gas	ND	ppmv	1.9	1.87		05/01/13 12:48		
Toluene	ND	ppmv	0.19	1.87		05/01/13 12:48	108-88-3	
m&p-Xylene	ND	ppmv	0.37	1.87		05/01/13 12:48	179601-23-1	
o-Xylene	ND	ppmv	0.19	1.87		05/01/13 12:48	95-47-6	

Sample: INF-1535042213		Lab ID: 10226428002	Collected: 04/22/13 15:35	Received: 04/23/13 10:50	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX CAN		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.16	1.57		05/01/13 13:04	71-43-2	
Ethylbenzene	ND	ppmv	0.16	1.57		05/01/13 13:04	100-41-4	
THC as Gas	3.9	ppmv	1.6	1.57		05/01/13 13:04		
Toluene	2.7	ppmv	0.16	1.57		05/01/13 13:04	108-88-3	
m&p-Xylene	ND	ppmv	0.31	1.57		05/01/13 13:04	179601-23-1	
o-Xylene	ND	ppmv	0.16	1.57		05/01/13 13:04	95-47-6	

QUALITY CONTROL DATA

Project: WA-5544
Pace Project No.: 10226428

QC Batch: AIR/17250 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 10226428001, 10226428002

METHOD BLANK: 1420491 Matrix: Air
Associated Lab Samples: 10226428001, 10226428002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	05/01/13 07:50	
Ethylbenzene	ppmv	ND	0.10	05/01/13 07:50	
m&p-Xylene	ppmv	ND	0.20	05/01/13 07:50	
o-Xylene	ppmv	ND	0.10	05/01/13 07:50	
THC as Gas	ppmv	ND	1.0	05/01/13 07:50	
Toluene	ppmv	ND	0.10	05/01/13 07:50	
a,a,a-Trifluorotoluene (S)	%	102	30-150	05/01/13 07:50	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1420492 1420493							Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD		
Benzene	ppmv	1	1.2	1.1	119	112	70-130	6	30	
Ethylbenzene	ppmv	1	1.2	1.1	119	107	70-130	11	30	
m&p-Xylene	ppmv	2	2.4	2.1	119	106	70-130	12	30	
o-Xylene	ppmv	1	1.2	1.0	119	105	70-130	13	30	
THC as Gas	ppmv	10	12.4	11.1	124	111	70-130	12	30	
Toluene	ppmv	1	1.2	1.1	118	108	70-130	9	30	
a,a,a-Trifluorotoluene (S)	%				106	110	30-150			

QUALIFIERS

Project: WA-5544
Pace Project No.: 10226428

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WA-5544
Pace Project No.: 10226428

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10226428001	EFF-1530042213	TO-3 Air	AIR/17250		
10226428002	INF-1535042213	TO-3 Air	AIR/17250		



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10226428

17534

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program:	
Company: ARCADIS		Report To: Rick Rodriguez		Attention: Rick Rodriguez		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input checked="" type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
Address: 1100 Olive Wy Ste 800 Seattle, WA 98101		Copy To: Harini Shennugem		Company Name: ARCADIS		Location of Sampling by State: WA Reporting Units: ug/m ³ _____ mg/m ³ _____ PPBV _____ PPMV _____ Other _____	
Email To: harini.shennugem@arcadis-us.com		Purchase Order No.:		Address: 1100 Olive Wy Ste 800 Seattle, WA 98101		Report Level: <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other _____	
Phone: 206-726-4139 Fax: 206-325-8216		Project Name: WA-5544		Pace Quote Reference: NA		Pace Project Manager/Sales Rep. Merich Perento Pace Profile #: NA	
Requested Due Date/TAT: standard		Project Number: GPO98PNAWA39		Pace Profile #:			

ITEM #	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	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	Method:								Pace Lab ID	
				COMPOSITE START END/GRAB		COMPOSITE						PM10	3C Fixed Gas (%)	TO3	TO-3M (Methane)	TO-4 (PCSS)	TO-13 (PM10)	TO-14	TO-15		TO-15 Short Lsr
				DATE	TIME	DATE	TIME														
1	EFF-1530042213	1LC	0.2	04/22/13	1530			-27	0	1372	205								001		
2	INF-1535042213	1LC	0.4	04/22/13	1835			-30	10	1383	424								002		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY	AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
	<i>Harini Shennugem</i>	04/22/13	10:50	<i>Rory Hennick</i>	PACE	4/23/13	10:50	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				<i>Rory Hennick</i>	PACE	4/24/13	09:31	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER: <i>Rory Hennick</i>					
SIGNATURE of SAMPLER: <i>Rory Hennick</i>					
DATE Signed (MM/DD/YY): <i>04/22/13</i>					

ORIGINAL



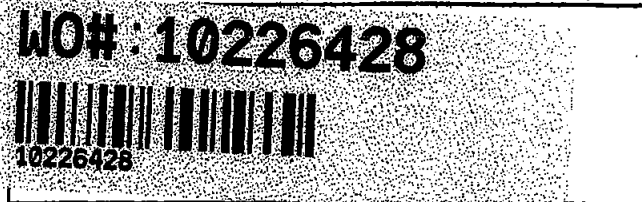
Document Name:
Air Sample Condition Upon Receipt
Document No.:
F-MN-A-106-rev.07

Document Revised: 28Jan2013
Page 1 of 1
Issuing Authority:
Pace Minnesota Quality Office

Air Sample Caught on
Upon Receipt

Client Name: Arcadis WA Project #: WO# 10226428

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____



Tracking Number: 5297 3246 8319

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

Packing Material: Bubble Wrap Bubble Bags Foam None Other: _____

Temp. (TO17 and TO13 samples only) (°C): oed Corrected Temp (°C): _____ Thermom. Used: BEBA912167504 80502447 72337080
Temp should be above freezing to 6°C Correction Factor: _____ Date & Initials of Person Examining Contents: 4/24/13

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>3cc's 2 Vac gauges</u>				11.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	12. <u>1 can unlabeled & not on COC</u>

Canisters		Flow Controllers		Stand Alone G	
Sample Number	Can ID	Sample Number	Can ID	Sample Number	Can ID
<u>E.F.F</u>	<u>pace 1372</u>				
<u>I.F.F</u>	<u>" 1479</u>				
<u>unlabeled</u>	<u>" 1383</u>				

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

Project Manager Review: M. M. M. M. M. Date: 4/25/13

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)

6/5/2013

Ms. Harini Shanmugam
Arcadis U.S., Inc.
1100 Olive Way
Ste 800
Seattle WA 98101

Project Name: WA-05544
Project #: GP09BPNA.WA39.M0000
Workorder #: 1305435

Dear Ms. Harini Shanmugam

The following report includes the data for the above referenced project for sample(s) received on 5/21/2013 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-3 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

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

Regards,



Kelly Buettner
Project Manager

WORK ORDER #: 1305435

Work Order Summary

CLIENT:	Ms. Harini Shanmugam Arcadis U.S., Inc. 1100 Olive Way Ste 800 Seattle, WA 98101	BILL TO:	Accounts Payable Arcadis U.S., Inc. 630 Plaza Drive Suite 600 Highlands Ranch, CO 80129
PHONE:	206-726-4728	P.O. #	GP09BPNA.WA39.M0000
FAX:	206-325-8218	PROJECT #	GP09BPNA.WA39.M0000 WA-05544
DATE RECEIVED:	05/21/2013	CONTACT:	Kelly Buettner
DATE COMPLETED:	06/05/2013		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	EFF-1515051713	Modified TO-3	0.5 psi	14.5 psi
02A	INF-1530051713	Modified TO-3	0.6 psi	15.6 psi
03A	SVE-3-1650051713	Modified TO-3	4.7 "Hg	15.3 psi
04A	SVE-4-1630051713	Modified TO-3	5.5 "Hg	15.4 psi
05A	SVE-5-1545051713	Modified TO-3	0.4 psi	15.5 psi
06A	SVE-6-1600051713	Modified TO-3	2.4 "Hg	14.9 psi
07A	Lab Blank	Modified TO-3	NA	NA
08A	LCS	Modified TO-3	NA	NA
08AA	LCSD	Modified TO-3	NA	NA
08B	LCS	Modified TO-3	NA	NA
08BB	LCSD	Modified TO-3	NA	NA

CERTIFIED BY: *Heidi Gray*
 Technical Director

DATE: 06/05/13

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

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

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

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

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



LABORATORY NARRATIVE
Modified TO-3
Arcadis U.S., Inc.
Workorder# 1305435

Six 1 Liter Summa Canister samples were received on May 21, 2013. The laboratory performed analysis for volatile organic compounds in air via modified EPA Method TO-3 using gas chromatography with photo ionization and flame ionization detection. The TPH results are calculated using the response of Gasoline. A molecular weight of 100 is used to convert the TPH ppmv result to ug/L. The method involves concentrating up to 200 mL of sample. The concentrated aliquot is then dry purged to remove water vapor prior to entering the chromatographic system.

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

<i>Requirement</i>	<i>TO-3</i>	<i>ATL Modifications</i>
Daily Calibration Standard Frequency	Prior to sample analysis and every 4 - 6 hrs	Prior to sample analysis and after the analytical batch ≤ 20 samples.
Initial Calibration Calculation	4-point calibration using a linear regression model	5-point calibration using average Response Factor
Initial Calibration Frequency	Weekly	When daily calibration standard recovery is outside 75 - 125 %, or upon significant changes to procedure or instrumentation
Moisture Control	Nafion system	Sorbent system
Minimum Detection Limit (MDL)	Calculated using the equation $DL = A + 3.3S$, where A is intercept of calibration line and S is the standard deviation of at least 3 reps of low level standard	40 CFR Pt. 136 App. B
Preparation of Standards	Levels achieved through dilution of gas mixture	Levels achieved through loading various volumes of the gas mixture

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
 B - Compound present in laboratory blank greater than reporting limit.

- J - Estimated value.
- E - Exceeds instrument calibration range.
- S - Saturated peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- M - Reported value may be biased due to apparent matrix interferences.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID**

Client Sample ID: EFF-1515051713

Lab ID#: 1305435-01A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
TPH (Gasoline Range)	0.048	0.20	0.082	0.34

Client Sample ID: INF-1530051713

Lab ID#: 1305435-02A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0020	0.0063	0.0045	0.014
Toluene	0.0020	0.0075	0.0043	0.016
m,p-Xylene	0.0020	0.0086	0.0048	0.021
o-Xylene	0.0020	0.0086	0.0072	0.031
TPH (Gasoline Range)	0.050	0.20	0.20	0.81

Client Sample ID: SVE-3-1650051713

Lab ID#: 1305435-03A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
m,p-Xylene	0.0024	0.010	0.0032	0.014
TPH (Gasoline Range)	0.060	0.25	0.076	0.31

Client Sample ID: SVE-4-1630051713

Lab ID#: 1305435-04A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Toluene	0.0025	0.0094	0.0043	0.016
m,p-Xylene	0.0025	0.011	0.0049	0.021
o-Xylene	0.0025	0.011	0.0029	0.012
TPH (Gasoline Range)	0.063	0.26	0.11	0.45

Client Sample ID: SVE-5-1545051713

Lab ID#: 1305435-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
-----------------	------------------------------	------------------------------	--------------------------	--------------------------



Air Toxics

**Summary of Detected Compounds
MODIFIED EPA METHOD TO-3 GC/PID/FID**

Client Sample ID: SVE-5-1545051713

Lab ID#: 1305435-05A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Toluene	0.0020	0.0075	0.0045	0.017
m,p-Xylene	0.0020	0.0087	0.0034	0.015
o-Xylene	0.0020	0.0087	0.0021	0.0093
TPH (Gasoline Range)	0.050	0.20	0.080	0.33

Client Sample ID: SVE-6-1600051713

Lab ID#: 1305435-06A

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0022	0.0070	0.045	0.14
Toluene	0.0022	0.0082	0.020	0.077
Ethyl Benzene	0.0022	0.0095	0.0036	0.016
m,p-Xylene	0.0022	0.0095	0.017	0.074
o-Xylene	0.0022	0.0095	0.024	0.10
TPH (Gasoline Range)	0.055	0.22	1.1	4.3



Air Toxics

Client Sample ID: EFF-1515051713

Lab ID#: 1305435-01A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052407	Date of Collection: 5/17/13 3:15:00 PM
Dil. Factor:	1.92	Date of Analysis: 5/24/13 02:24 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0019	0.0061	Not Detected	Not Detected
Toluene	0.0019	0.0072	Not Detected	Not Detected
Ethyl Benzene	0.0019	0.0083	Not Detected	Not Detected
m,p-Xylene	0.0019	0.0083	Not Detected	Not Detected
o-Xylene	0.0019	0.0083	Not Detected	Not Detected
TPH (Gasoline Range)	0.048	0.20	0.082	0.34

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	91	75-150
Fluorobenzene (PID)	93	75-125



Air Toxics

Client Sample ID: INF-1530051713

Lab ID#: 1305435-02A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052408	Date of Collection: 5/17/13 3:30:00 PM
Dil. Factor:	1.98	Date of Analysis: 5/24/13 03:11 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0020	0.0063	0.0045	0.014
Toluene	0.0020	0.0075	0.0043	0.016
Ethyl Benzene	0.0020	0.0086	Not Detected	Not Detected
m,p-Xylene	0.0020	0.0086	0.0048	0.021
o-Xylene	0.0020	0.0086	0.0072	0.031
TPH (Gasoline Range)	0.050	0.20	0.20	0.81

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-150
Fluorobenzene (PID)	93	75-125



Air Toxics

Client Sample ID: SYE-3-1650051713

Lab ID#: 1305435-03A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052409	Date of Collection: 5/17/13 4:50:00 PM
Dil. Factor:	2.42	Date of Analysis: 5/24/13 03:45 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0024	0.0077	Not Detected	Not Detected
Toluene	0.0024	0.0091	Not Detected	Not Detected
Ethyl Benzene	0.0024	0.010	Not Detected	Not Detected
m,p-Xylene	0.0024	0.010	0.0032	0.014
o-Xylene	0.0024	0.010	Not Detected	Not Detected
TPH (Gasoline Range)	0.060	0.25	0.076	0.31

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	94	75-150
Fluorobenzene (PID)	95	75-125



Air Toxics

Client Sample ID: SVE-4-1630051713

Lab ID#: 1305435-04A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052410	Date of Collection: 5/17/13 4:30:00 PM
Dil. Factor:	2.51	Date of Analysis: 5/24/13 04:19 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0025	0.0080	Not Detected	Not Detected
Toluene	0.0025	0.0094	0.0043	0.016
Ethyl Benzene	0.0025	0.011	Not Detected	Not Detected
m,p-Xylene	0.0025	0.011	0.0049	0.021
o-Xylene	0.0025	0.011	0.0029	0.012
TPH (Gasoline Range)	0.063	0.26	0.11	0.45

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	92	75-150
Fluorobenzene (PID)	93	75-125



Air Toxics

Client Sample ID: SVE-5-1545051713

Lab ID#: 1305435-05A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052411	Date of Collection: 5/17/13 3:45:00 PM
Dil. Factor:	2.00	Date of Analysis: 5/24/13 04:53 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0020	0.0064	Not Detected	Not Detected
Toluene	0.0020	0.0075	0.0045	0.017
Ethyl Benzene	0.0020	0.0087	Not Detected	Not Detected
m,p-Xylene	0.0020	0.0087	0.0034	0.015
o-Xylene	0.0020	0.0087	0.0021	0.0093
TPH (Gasoline Range)	0.050	0.20	0.080	0.33

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	91	75-150
Fluorobenzene (PID)	94	75-125



Air Toxics

Client Sample ID: SVE-6-1600051713

Lab ID#: 1305435-06A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052412	Date of Collection: 5/17/13 4:00:00 PM
Dil. Factor:	2.19	Date of Analysis: 5/24/13 05:28 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0022	0.0070	0.045	0.14
Toluene	0.0022	0.0082	0.020	0.077
Ethyl Benzene	0.0022	0.0095	0.0036	0.016
m,p-Xylene	0.0022	0.0095	0.017	0.074
o-Xylene	0.0022	0.0095	0.024	0.10
TPH (Gasoline Range)	0.055	0.22	1.1	4.3

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	91	75-150
Fluorobenzene (PID)	93	75-125



Air Toxics

Client Sample ID: Lab Blank

Lab ID#: 1305435-07A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052406	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	5/24/13 01:31 PM

Compound	Rpt. Limit (ppmv)	Rpt. Limit (ug/L)	Amount (ppmv)	Amount (ug/L)
Benzene	0.0010	0.0032	Not Detected	Not Detected
Toluene	0.0010	0.0038	Not Detected	Not Detected
Ethyl Benzene	0.0010	0.0043	Not Detected	Not Detected
m,p-Xylene	0.0010	0.0043	Not Detected	Not Detected
o-Xylene	0.0010	0.0043	Not Detected	Not Detected
TPH (Gasoline Range)	0.025	0.10	Not Detected	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	97	75-150
Fluorobenzene (PID)	98	75-125



Air Toxics

Client Sample ID: LCS

Lab ID#: 1305435-08A

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052414b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/24/13 07:20 PM

Compound	%Recovery
Benzene	96
Toluene	88
Ethyl Benzene	87
m,p-Xylene	87
o-Xylene	89

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	92	75-125



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1305435-08AA

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052415b	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/24/13 08:12 PM

Compound	%Recovery
Benzene	100
Toluene	92
Ethyl Benzene	93
m,p-Xylene	93
o-Xylene	93

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (PID)	106	75-125



Air Toxics

Client Sample ID: LCS

Lab ID#: 1305435-08B

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052403	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/24/13 10:47 AM

Compound	%Recovery
TPH (Gasoline Range)	101

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	89	75-150



Air Toxics

Client Sample ID: LCSD

Lab ID#: 1305435-08BB

MODIFIED EPA METHOD TO-3 GC/PID/FID

File Name:	d052413	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/24/13 06:24 PM

Compound	%Recovery
TPH (Gasoline Range)	97

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Fluorobenzene (FID)	95	75-150

June 24, 2013

Rick Rodriguez
Arcadis U.S., Inc.
2300 Eastlake Ave. E
Seattle, WA 98102

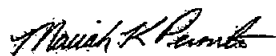
RE: Project: WA-5544
Pace Project No.: 10232544

Dear Rick Rodriguez:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2013. 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,



Mariah Peronto

mariah.peronto@pacelabs.com
Project Manager

Enclosures

cc: Accounts Payable, Arcadis U.S., Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: WA-5544
Pace Project No.: 10232544

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: Pace
Florida/NELAP Certification #: E87605
Georgia Certification #: 959
Hawaii Certification #Pace
Idaho Certification #: MN00064
Illinois Certification #: 200011
Kansas Certification #: E-10167
Louisiana Certification #: 03086
Louisiana Certification #: LA080009
Maine Certification #: 2007029
Maryland Certification #: 322
Michigan DEQ Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace

Montana Certification #: MT CERT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Dakota Certification #: R-036
North Dakota Certification #: R-036A
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Tennessee Certification #: 02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia/DCLS Certification #: 002521
Virginia/VELAP Certification #: 460163
Washington Certification #: C754
West Virginia Certification #: 382
Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: WA-5544
Pace Project No.: 10232544

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10232544001	EFF-152006142013	Air	06/14/13 15:20	06/18/13 09:10
10232544002	INF-153506142013	Air	06/14/13 15:35	06/18/13 09:10

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Project: WA-5544
Pace Project No.: 10232544

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10232544001	EFF-152006142013	TO-3 Air	RTP	6	PASI-M
10232544002	INF-153506142013	TO-3 Air	RTP	6	PASI-M

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

ANALYTICAL RESULTS

Project: WA-5544
Pace Project No.: 10232544

Sample: EFF-152006142013		Lab ID: 10232544001	Collected: 06/14/13 15:20	Received: 06/18/13 09:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX CAN		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.19	1.92		06/21/13 12:58	71-43-2	
Ethylbenzene	ND	ppmv	0.19	1.92		06/21/13 12:58	100-41-4	
THC as Gas	2.0	ppmv	1.9	1.92		06/21/13 12:58		
Toluene	ND	ppmv	0.19	1.92		06/21/13 12:58	108-88-3	
m&p-Xylene	ND	ppmv	0.38	1.92		06/21/13 12:58	179601-23-1	
o-Xylene	ND	ppmv	0.19	1.92		06/21/13 12:58	95-47-6	

Sample: INF-153506142013		Lab ID: 10232544002	Collected: 06/14/13 15:35	Received: 06/18/13 09:10	Matrix: Air			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
TO3 GCV AIR BTEX CAN		Analytical Method: TO-3 Air						
Benzene	ND	ppmv	0.18	1.75		06/21/13 13:15	71-43-2	
Ethylbenzene	ND	ppmv	0.18	1.75		06/21/13 13:15	100-41-4	
THC as Gas	2.9	ppmv	1.8	1.75		06/21/13 13:15		
Toluene	ND	ppmv	0.18	1.75		06/21/13 13:15	108-88-3	
m&p-Xylene	ND	ppmv	0.35	1.75		06/21/13 13:15	179601-23-1	
o-Xylene	ND	ppmv	0.18	1.75		06/21/13 13:15	95-47-6	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA

Project: WA-5544
Pace Project No.: 10232544

QC Batch: AIR/17632 Analysis Method: TO-3 Air
QC Batch Method: TO-3 Air Analysis Description: TO3 GCV AIR BTEX CAN
Associated Lab Samples: 10232544001, 10232544002

METHOD BLANK: 1463159 Matrix: Air
Associated Lab Samples: 10232544001, 10232544002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ppmv	ND	0.10	06/21/13 09:18	
Ethylbenzene	ppmv	ND	0.10	06/21/13 09:18	
m&p-Xylene	ppmv	ND	0.20	06/21/13 09:18	
o-Xylene	ppmv	ND	0.10	06/21/13 09:18	
THC as Gas	ppmv	ND	1.0	06/21/13 09:18	
Toluene	ppmv	ND	0.10	06/21/13 09:18	
a,a,a-Trifluorotoluene (S)	%	96	30-150	06/21/13 09:18	

LABORATORY CONTROL SAMPLE & LCSD: 1463160 1463161

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ppmv	1	1.0	0.99	102	99	70-130	4	30	
Ethylbenzene	ppmv	1	1.1	1.1	109	112	70-130	3	30	
m&p-Xylene	ppmv	2	2.1	2.1	106	107	70-130	.7	30	
o-Xylene	ppmv	1	1.1	1.1	105	107	70-130	2	30	
THC as Gas	ppmv	10	11.2	11.1	112	111	70-130	1	30	
Toluene	ppmv	1	1.0	1.1	104	107	70-130	2	30	
a,a,a-Trifluorotoluene (S)	%				99	83	30-150			

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALIFIERS

Project: WA-5544
Pace Project No.: 10232544

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

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.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WA-5544
Pace Project No.: 10232544

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10232544001	EFF-152006142013	TO-3 Air	AIR/17632		
10232544002	INF-153506142013	TO-3 Air	AIR/17632		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



AIR: CHAIN-OF-CUSTODY / Analytical Request Document

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

10232544

11308

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Program	
Company: ARCADIS		Report To: Richard Rodriguez		Attention: Richard Rodriguez		<input type="checkbox"/> UST <input type="checkbox"/> Superfund <input type="checkbox"/> Emissions <input type="checkbox"/> Clean Air Act <input type="checkbox"/> Voluntary Clean Up <input type="checkbox"/> Dry Clean <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> Other PSIA	
Address: 1100 Olive Way Ste 800 Seattle, WA 98101		Copy To: Heini Shumgan Kyle Heston		Company Name: ARCADIS		Location of Sampling by State: WA	
Email To: richard.rodriguez@arcadis-us.com		Purchase Order No.: NA		Address: 1100 Olive Way, Seattle, WA 98101		Reporting Units ug/m ³ <input type="checkbox"/> mg/m ³ <input type="checkbox"/> PPEV <input type="checkbox"/> PPMV <input type="checkbox"/> Other <input type="checkbox"/>	
Phone: 206-726-4721 Fax: 206-325-8218		Project Name: WA-5544		Pace Quote Reference: N/A		Report Level <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> Other <input type="checkbox"/>	
Requested Due Date/TAT: 5-4-13		Project Number: GPO9BPNAWA39		Pace Project Manager/Sales Rep: Merich Peruto			
				Pace Profile #: N/A			

ITEM #	Section D Required Client Information		COLLECTED				Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method:								Pace Lab ID		
	AIR SAMPLE ID		MEDIA CODE	PID Reading (Client only)	COMPOSITE START						COMPOSITE -		PM10	3C Filtered Gas (Fg)	TDS (Fg)	TO-15 (Micrograms)	TO-15 (PCBs)	TO-15 (PAH)		TO-15 (Other)	TNC at 6.7
	Sample IDs MUST BE UNIQUE				DATE	TIME					DATE	TIME									
1	EFF-152006142013	ILC 0.1	6/14/13	1520	1529	1525	-29	-5	1054	175	X						601				
2	INF-153506142013	ILC 0.9	6/14/13	1535			-29	-4	1044	175	X						602				
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

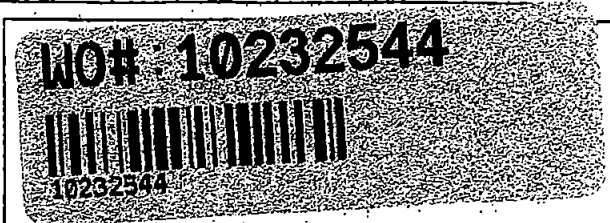
Comments :	RELINQUISHED BY	AFFILIATION	DATE	TIME	ACCEPTED BY	AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
	From GGR / Aus		6/14/13	16:37	Jean Gros/FAC Lab		6/14/13	09:18	Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact	Y/N
													Y/N
													Y/N
													Y/N

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:	SIGNATURE of SAMPLER:				
	Roy G. Kenna				
DATE Signed (MM/DD/YYYY)					
	6/14/13				

ORIGINAL

Air Sample Condition Upon Receipt

Client Name: Project #:



Arcadis WSA

Courier: [X] Fed Ex [] UPS [] USPS [] Client [] Commercial [] Pace [] Other:

Tracking Number: 5647 7474 8433

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

Packing Material: [X] Bubble Wrap [X] Bubble Bags [] Foam [] None [] Other:

Temp. (TO17 and TO13 samples only) (°C): [] Corrected Temp (°C): Thermom. Used: [] B88A912167504 [] 80512447 [] 72337080

Date & Initials of Person Examining Contents: [Signature] Comments:

Table with 12 rows of questions and checkboxes (Yes/No/N/A) regarding Chain of Custody, Sample Arrival, and Container Integrity.

Table titled 'Samples Received' with columns for Canisters, Flow Controllers, and Stand Alone G, including Sample Number and Can ID.

CLIENT NOTIFICATION/RESOLUTION Field Data Required? [] Yes [] No Person Contacted: Date/Time: Comments/Resolution:

Project Manager Review: [Signature] Date: 6/19/13

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 temp, incorrect preservative, out of temp, incorrect containers)