May 6, 2015

Mr. Lucas Berresford SCDHEC - State Voluntary Cleanup Section Bureau of Land & Waste Management 2600 Bull Street Columbia, SC 29201 803-896-4071

Subject: Winter 2015 Vapor Intrusion Assessment Report

Joslyn Clark Controls, LLC Facility

2013 West Meeting Street

Lancaster County, South Carolina

Dear Mr. Berresford:

On behalf of Joslyn Clark Controls, LLC, ERM NC, Inc. (ERM) is pleased to present one hard copy and one electronic copy of the Winter 2015 Vapor Intrusion (VI) Assessment Report for the above referenced site (Figure 1). The VI Assessment has been conducted in accordance with the approved VI Work Plan dated March 19, 2014, with the exception that permanent Vapor PinTM sub-slab sampling points were installed to facilitate future sampling, if warranted, as described herein.

BACKGROUND

The subject property consists of 23 acres of land and is developed with two main buildings. The now vacant former manufacturing building was constructed in 1964 and consists of approximately 180,000 square feet of floor space. The now vacant former warehouse/storage building was constructed in 1967 and consists of approximately 14,400 square feet of floor space. The subject property has been used to manufacture electrical control equipment for fire safety purposes since its construction in 1964.

Site assessment activities at this facility have been ongoing since 2009. Groundwater at the site is impacted with elevated TCE concentrations of up to 3,200 ug/L. The apparent source area for the observed TCE in groundwater is beneath the existing building. A passive soil gas survey confirmed the presence of TCE and other organic vapors beneath the concrete slab of the building. As a result, SCDHEC requested a VI

ERM NC, Inc.

15720 Brixham Hill Avenue Suite 120 Charlotte, NC 28277 Tele: 704-541-8345 Fax:704-624-7928 www.erm.com



Assessment of sub slab and indoor air at the facility on February 5, 2014. The requested VI Assessment was performed during May 2014.

PURPOSE AND SCOPE

This VI sampling event was conducted as a follow-up to the May 2014 VI assessment to confirm prior sample results and to collect samples in a "worst-case" scenario in the colder, winter months, as suggested by the IRTC (2007) guidance. Additionally, this confirmatory sampling event satisfies the SCDHEC letter dated May 15, 2014 which states that it may be necessary to evaluate sub slab vapor to following the Groundwater Pilot Test to determine if the potential remedy will have an impact on vapor intrusion.

The scope of work duplicated objectives set forth in the March 19, 2014 *Vapor Intrusion Work Plan*, which included:

- Collect seven indoor air samples from the building;
- Collect sub-slab soil gas samples from approximately the same locations as the indoor air samples (except for the office area where vinyl floor tiles have the potential to be asbestoscontaining);
- Collect an ambient air sample outside the building;
- Analyze the air and soil gas samples for VOCs; and
- Evaluate and report the results.

Results of the Winter 2015 Vapor Intrusion Assessment are summarized in the following sections.

VAPOR INTRUSION ASSESSMENT

The vapor intrusion assessment was conducted by ERM on February 18 and 19, 2015 using the procedures and methods outlined in ERM's VI Work Plan dated March 19, 2014, with the exception that permanent Vapor PinsTM were installed in the concrete slab to facilitate ease of future sub-slab sampling efforts. The assessment consisted of co-located sub-slab soil gas and indoor/ambient air samples at select locations (see Figure 3). Prior to sample collection, ERM conducted a visual survey inside the building near the sampling locations to identify features relevant to the indoor air sampling activities such as areas of higher/lower susceptibility to potential vapor intrusion (i.e. utility corridors, enclosed rooms), general information on building ventilation and products used in the facility that may serve as potential sources of VOCs. Results of the building survey have been used to evaluate the

findings of the vapor intrusion assessment. A copy of the survey form is attached as Appendix A.

Indoor air samples were collected on February 18th. On February 19th, permanent vapor pins were installed, leak tested, and then sampled. Field sampling forms were completed at each sampling location to document the setup and sampling details (see Appendix B).

Sub-Slab Soil Gas Sample Collection

Sub-slab samples were collected from the same six locations used in 2014 to assess the potential for vapor intrusion. Two of the six locations were chosen to correspond to the two areas of highest soil gas TCE concentrations from ERM's December 2012 passive soil gas survey. The remaining locations focused on the overall source area and the general footprint of the building. Permanent Vapor PinsTM were installed at each location on February 19, 2015. The sample points were installed in the floor slab using a rotary hammer drill to bore a 1-inch diameter hole in the concrete slab to a depth of approximately 2-inches from the floor surface. A ½-inch diameter hole was then drilled through the remainder of the floor slab. The hole was terminated approximately 2-3 inches beneath the soil/slab interface and then the Vapor PinTM was installed at each location.

To test the integrity of the seal between the pins and the concrete, a helium tracer test was performed at each location. The test was performed by placing of a shroud over the sampling point and filling the shroud with helium gas. The soil gas probe was then purged with a 50 mL syringe to a Tedlar bag, and the effluent was monitored using a field helium detector (Dielectric MGD-2002). A test was considered passed if the helium concentrations in the effluent are less than 10% of the helium concentration in the shroud. Each sample point passed during the first test.

On February 19, 2015, soil gas sampling was performed using 6-liter SUMMA® canisters to collect whole air samples. The SUMMA canisters were equipped with flow regulators and to allow air samples to be collected over a 4-hour sampling period at rate not exceeding 200 ml/min. After completion of the sampling activities, the temporary probes were removed and the holes were filled with concrete.

Soil gas samples were analyzed by USEPA Method TO-15 for VOCs. The samples were submitted to Eurofins Air Toxics of Lancaster, Pennsylvannia (Air Toxics) for laboratory analysis.

Air Sample Collection

Seven indoor air samples were collected using 6-liter SUMMA® canisters on February 18, 2015 at locations corresponding with the sub-slab samples, except for the office area where a sub-slab sample was not collected due to potential asbestos material in the floor tiles.

One ambient air sample was also collected from an outdoor location approximately 100 feet northeast of the site building. Air samples were collected in accordance with the *Work Plan* and field data sheets were completed for each location (see Appendix A). Indoor and ambient air samples were analyzed using USEPA TO-15 SIM Method. The samples were submitted to Air Toxics for laboratory analyses.

FINDINGS

A summary of the samples collected and analytical results generated as part of this sampling event are presented in Table 1 (sub slab soil gas results) and Table 2 (indoor air results). Each table show results from the May 2014 and February 2015 sampling event for comparison. Indoor air results were compared to Industrial Air Regional Screening Levels (RSLs) established by the US EPA, dated January 2015. Sub slab soil gas samples were compared to the same RSLs, but at one order of magnitude higher concentration than for indoor air (assuming an attenuation factor of 10). This method is commensurate with the EPA VISL calculator which lists soil gas target values of one order magnitude higher than those for indoor air. The laboratory analytical report for the sampling event is included in Appendix C.

Soil Gas Results

Compounds detected during the February 2015 were similar to those detected in May 2014. TCE continued to be the most prevalent VOC detected with concentrations ranging from 1.4 to 15,000 μ g/m³. However, concentrations of TCE and other VOCs in soil gas showed a 50% or greater reduction since the May 2014 event. The reduction in subslab VOC concentrations may be attributed to a remedial pilot test that was iniated in June to July 2014. The pilot test involved injecting approximately 2,000-gallons of a 5% sodium permangant solution into the saprolite aquifer in the northest portion of the building.

Indoor Air Results

Trace concentrations of nine VOCs were detected above the laboratory reporting limits in indoor air samples; however, seven of these

compounds were also detected in the ambient outdoor sample at similar concentrations. Based on this, the indoor air concentrations maybe false positives. One of the samples (AA-2) detected 1,2-dichloroethane at 0.581 μ g/m³, which slightly exceeds the RSL of 0.47 μ g/m³.

TCE was detected in five of the seven indoor air samples at concentrations ranging from $0.672 \,\mu g/m^3$ to $2.54 \,\mu g/m^3$. These concentrations were less than the May 2014 detections and also below the industrial RSL for TCE which is $3.0 \,\mu g/m^3$.

RECOMMENDATIONS

The second round of soil gas and indoor air samples were collected in February 2015 as a worst-case scenario (winter months) for vapor intrusion, and as a post-pilot test evaluation. Laboratory results from the February 2015 event showed lower VOC concentrations in soil gas when compared to the May 2014 results, and no exceedances of RSLs in the indoor air samples. Based on the lack of indoor air exceedences and reduction of soil gas concentrations, neither seasonal changes or the pilot test remediation activities appear to have had an adverse effect on subslab soil gas or indoor air at the subject building.

Should you have any questions or comments, feel free to contact us at (704) 541-8345.

Sincerely,

Rick Tarravechia, P.G

Partner in Charge

Michael Pressley Project Manager

cc: Mr. Carl Grabinski - Joslyn Clark Controls

Attachments

Figure 1 – Site Location Map

Figure 2 – Site Plan Map

Figure 3 - Vapor Intrusion Assessment Sample Location Map

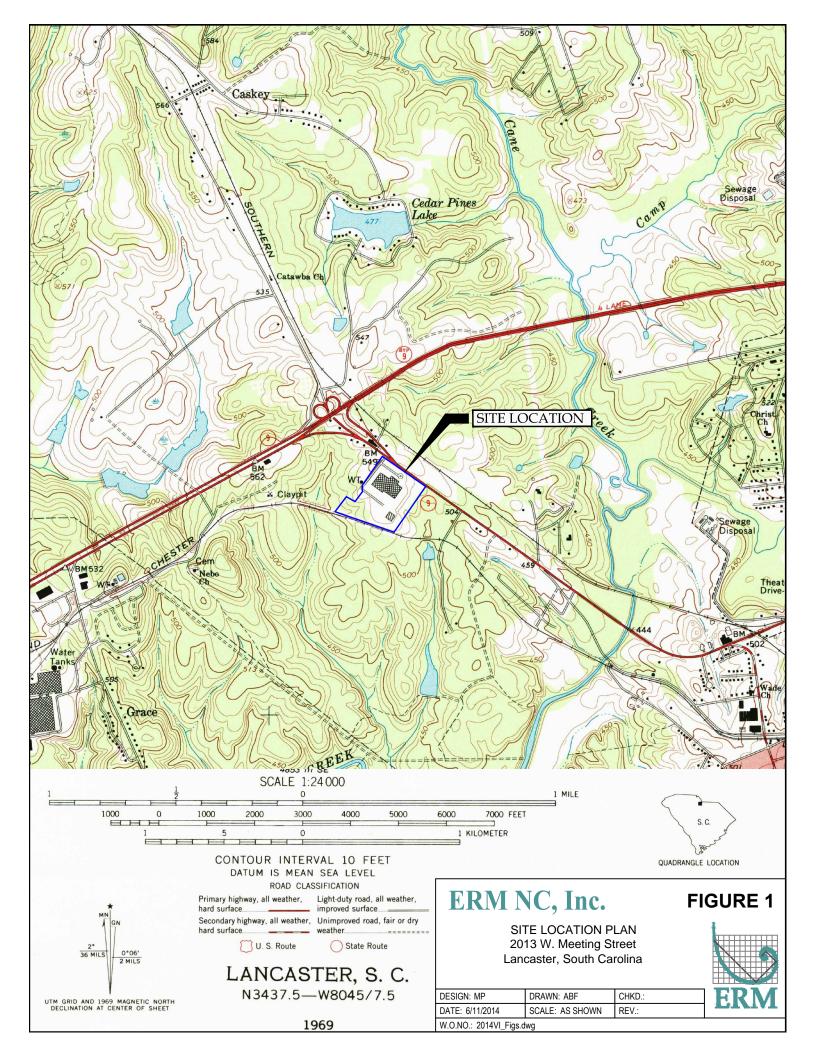
Table 1 - Sub Slab Soil Gas Analytical Results

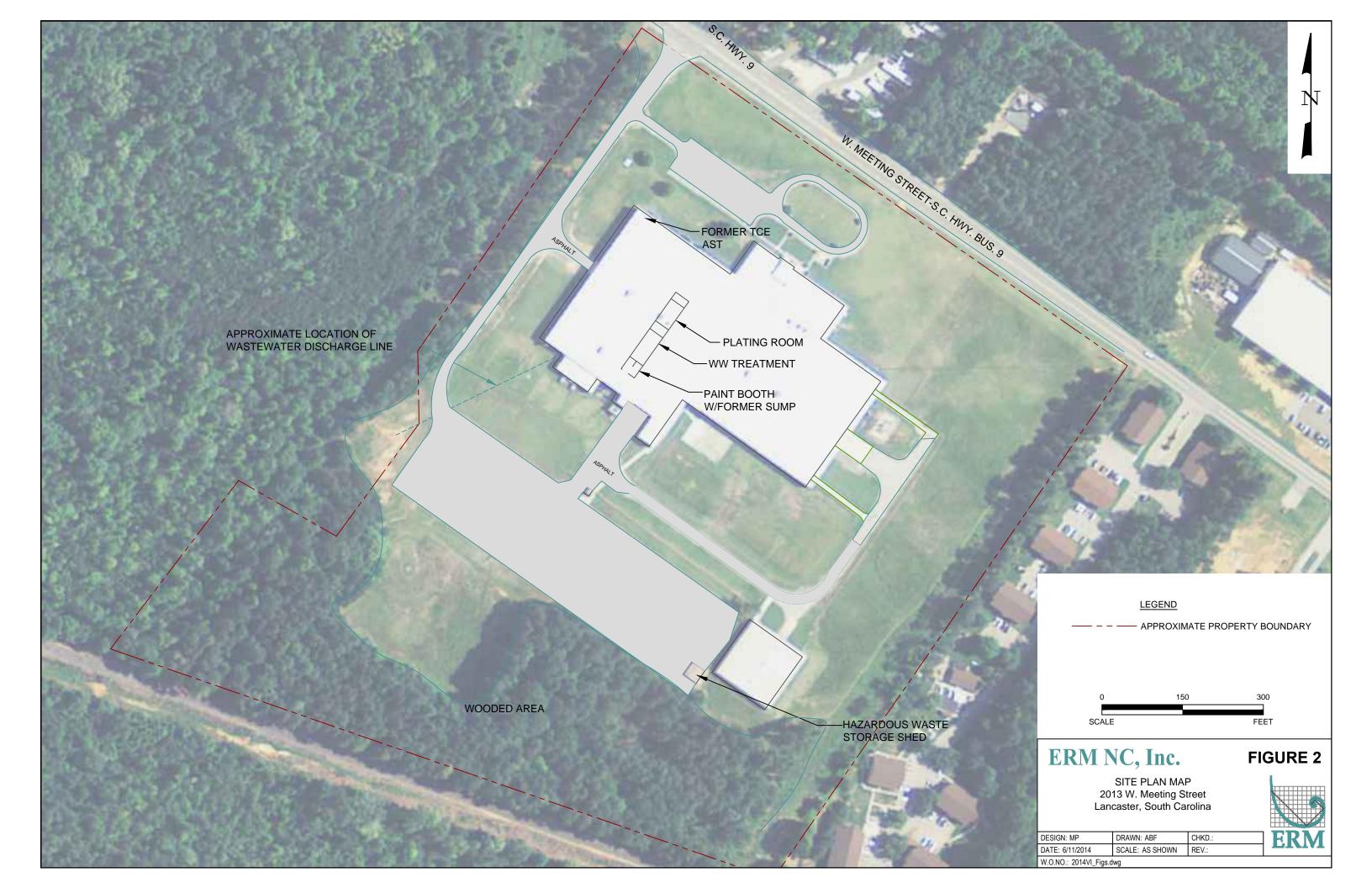
Table 2 – Indoor Air Analytical Results

Appendix A – Building Survey Form

Appendix B – Field Sample Forms

Appendix C - Laboratory Analytical Data Sheets





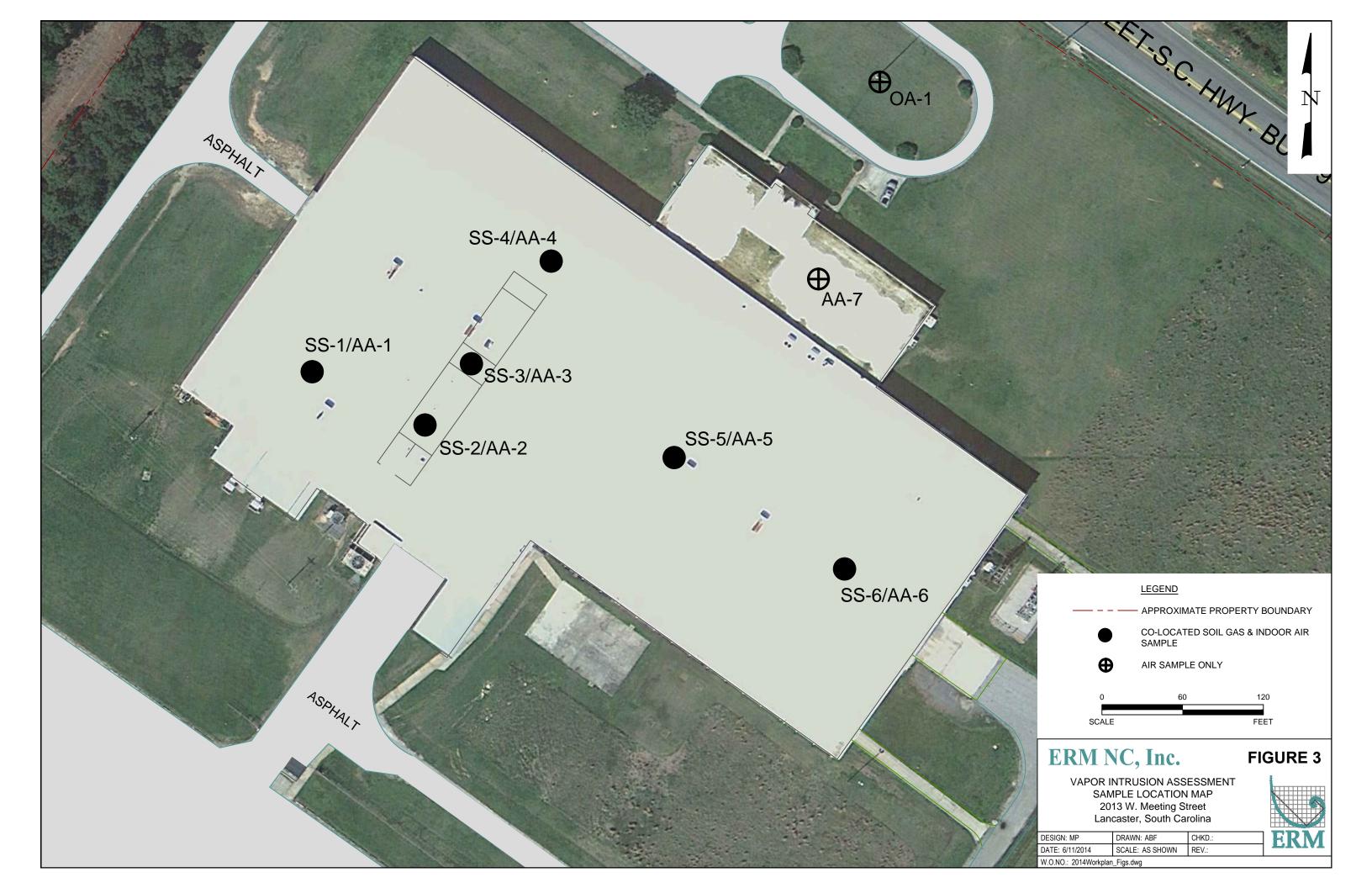


TABLE 1 SUB SLAB SOIL GAS ANALYTICAL RESULTS JOSLYN CLARK FACILITY LANCASTER, SOUTH CAROLINA

			VOCs in Air by EPA Method TO-15 (μg/m³)																							
Sample ID	Date	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	Ethanol	Ethylbenzene	4-Ethyltoluene	2-Propanol	Freon 113	Hexane	Methylene Chloride	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	m,p-Xylene	o-Xylene
SS-1	5/9/2014	<110	<15	<54	<57	16 J	<94	NA	3.1 J	69	<18	<34	<20	<22	<45	<35	<16	<160	79	<25	6,400	NA	<22	<22	<20	<20
	2/19/2015	31J	<13	<29	<31	<20	<8.3	<34	<16	24J	<16	30J	<17	<20	<25	<77	<14	<14	28J	<22	2,100	<22	<20	<20	<17	<17
SS-2	5/9/2014	<530	<72	<260	<280	97 J	<460	NA	17 J	660	170	<170	<97	<110	<220	<170	<79	<780	490	<120	28,000	NA	<110	<110	<97	<97
00-Z	2/19/2015	940J	<130	<290	620J	<200	<83	<340	<160	350J	<160	1,100	<170	<200	<250	<770	1,400	450J	410J	<220	15,000	<220	<200	<200	<170	<170
SS-3	5/9/2014	67 J	<15	<54	<57	240	<94	NA	97	94	<18	<34	<20	62	35 J	<35	<16	<160	110	250	6,700	NA	100	32	25	340
000	2/19/2015	62	<6.4	<15	<16	170	<4.1	<25	44	67	<7.9	18J	<8.7	<9.8	<12	<38	<7	<6.9	46J	130	3,100	<11	<9.8	<9.8	<8.7	14J
SS-4	5/9/2014	64	1.1J	14J	<23	14	<38	NA	19	28	<7.2	36	<7.9	<9.0	91	<14	<6.4	<64	38	<10	2,400	NA	<9.0	<9.0	<7.9	<7.9
004	2/19/2015	48	<6.4	<15	<16	<9.8	<4.1	<25	<7.9	<7.9	<7.9	19	<8.7	<9.8	<12	<38	<7	<6.9	24J	<11	580	<11	<9.8	<9.8	<8.7	<8.7
SS-5	5/9/2014	22	0.51J	5.2J	<11	1.8 J	<18	NA	<3.6	<3.5	<3.5	8.5	<3.9	<4.4	24	<6.8	<3.2	<31	6.1	<4.9	100	NA	1.0 J	<4.4	1.4 J	<3.9
00 0	2/19/2015	110	1.6J	22	<1.6	<0.98	1.1J	2.7J	<0.81	<0.79	<0.79	32	0.88J	<0.98	16	<3.8	<0.70	<0.69	2.4J	<1.1	29	1.3J	3.8J	1.4J	7.5	2.6J
SS-6	5/9/2014	18 J	<2.8	<10	<11	<4.4	<18	NA	<3.6	<3.5	<3.5	6.0 J	<3.9	<4.4	6.8 J	<6.8	<3.2	<31	14	<4.9	6.4	NA	0.75 J	<4.4	1.5 J	<3.9
33-0	2/19/2015	54	<0.64	6.9	1.6	<0.98	<0.41	2.7J	<0.81	<0.79	0.80J	26	4.9	<0.98	54	<3.8	<0.70	<0.69	54	<1.1	1.4J	1.3J	<0.98	<0.98	19	5.7
Target Subslab S Industrial Air (µg, 06 or HI=1	oil Gas Level for /m3) @ TCR = 1E-	14,000,000	16	22,000	3,100	5.3	390	440	77	880	NE	NE	49	NE	880	NE	3,100	12,000	470	22,000	30	3,100	31	NE	440	440

Notes:
BOLD values indicate an exceedance of a published regulatory threshold µg/m³ = micrograms per cubic meter
< = Not Detected above laboratory detection limit; NE = Not Established
Values obtained using indoor air RSL with attenuation factor of 10

TABLE 2 INDOOR AIR ANALYTICAL RESULTS JOSLYN CLARK FACILITY LANCASTER, SOUTH CAROLINA

			VOCs in Air by EPA Method TO-15 SIM (μg/m³)																							
Sample ID	Date	Acetone	Benzene	Carbon Tetrachloride	Chloroform	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethen	Ethanol	Ethylbenzene	Freon 113	2-Propanol	Hexane	Tetrachloroethene	Toluene	1,1,1-Trichloroethane	Trichloroethene	1,2,4- Trimethylbenzene	1,3,5- Trimethylbenzene	m,p-Xylene	o-Xylene
OA-1	5/9/2014	14 J	<3	<5.9	<4.6	<5.6	<5.6	<5.6	<3.8	<3.7	<3.8	<3.7	<3.7	4.4 J	<4	<7.2	<9.2	1.7 J	<6.3	<3.5	<5.1	<5.0	<4.6	<4.6	<4.1	<4.1
	2/18/2015	NA	0.425	0.377	<0.0977	<0.120	<0.120	<0.120	<0.0809	<0.0793	<0.0809	<0.0793	<0.0793	NA	0.108J	0.469	NA	NA	<0.139	0.251	<0.109	<0.107	NA	NA	0.230J	0.126J
AA-1	5/9/2014	20 J	<2.9	<5.8	<4.5	<5.5	<5.5	<5.5	<3.7	<3.6	<3.7	<3.6	<3.6	6.5 J	<4	<7	<9.0	1.8 J	<6.2	<3.5	<5.0	3.5 J	0.74 J	<4.5	<4.0	<4.0
	2/18/2015	NA	1.08	0.391	<0.0977	<0.120	<0.120	<0.120	<0.0809	<0.0793	<0.0809	<0.0793	<0.0793	NA	0.939J	0.493	NA	NA	<0.136	0.567	<0.109	1.27	NA	NA	0.234J	0.125J
AA-2	5/9/2014	11 J	<2.8	<5.6	<4.4	<5.4	<5.4	<5.4	<3.6	<3.5	<3.6	<3.5	<3.5	<6.7	<3.9	<6.8	<8.8	1.2 J	<6.1	<3.5	<4.9	3.3 J	<4.4	<4.4	<3.9	<3.9
.3.2	2/18/2015	NA	1.28	0.409	<0.0977	0.421	0.368	0.394	<0.0809	<0.0793	0.581	<0.0793	<0.0793	NA	2.44	0.499	NA	NA	0.364	1.43	<0.109	2.54	NA	NA	5.26	3.60
AA-3	5/9/2014	15 J	<3	<5.9	<4.6	<5.6	<5.6	<5.6	<3.8	<3.7	<3.8	<3.7	<3.7	<7.0	<4	<7.2	<9.2	1.2 J	<6.3	<3.5	<5.1	2.3 J	<4.6	<4.6	<4.1	<4.1
	2/18/2015	NA	<0.0639	<0.126	<0.0977	<0.120	<0.120	<0.120	<0.0809	<0.0793	<0.0809	<0.0793	<0.0793	NA	<0.868	<0.153	NA	NA	<0.136	<0.0754	<0.109	<0.107	NA	NA	<0.0868	<0.0868
AA-4	5/9/2014	18 J	<2.9	<2.9	<5.8	<4.5	<5.5	<5.5	<5.5	<3.7	<3.6	<3.7	<3.6	<3.6	<4	<7	<9.0	0.84 J	<6.2	<3.5	<5.0	2.2 J	<4.5	<4.5	<4.0	<4.0
	2/18/2015	NA	0.89	0.366	<0.0977	<0.120	<0.120	<0.120	<0.0809	<0.0793	0.456	<0.0793	<0.0793	NA	0.3	0.456	NA	NA	<0.136	0.576	<0.109	1.41	NA	NA	0.791	0.432
AA-5	5/9/2014	19 J	<2.9	<2.9	<5.8	<4.5	<5.5	<5.5	<5.5	<3.7	<3.6	<3.7	<3.6	4.0 J	<4	<7	<9.0	4.5	<6.2	<3.5	<5.0	1.4 J	NA	NA	<4.0	<4.0
7 0	2/18/2015	NA	0.998	0.382	<0.0977	<0.120	<0.120	0.135J	<0.0809	<0.0793	0.442	<0.0793	<0.0793	NA	0.827	0.477	NA	NA	0.141J	0.847	<0.109	1.43	NA	NA	2.32	1.17
AA-6	5/9/2014	17 J	<2.8	<5.6	<4.5	<5.4	<5.4	<5.4	<3.7	<3.6	<3.6	<3.6	<3.5	<6.9	<3.9	<6.8	2.8 J	0.69 J	<6.2	<3.5	<5.0	1.7 J	<4.5	<4.5	<4.0	<4.0
7010	2/18/2015	NA	0.77	0.384	<0.0977	0.166J	0.147J	0.170J	<0.0809	<0.0793	0.252	<0.0793	0.356	NA	0.931	0.478	NA	NA	<0.136	0.795	<0.109	0.74	NA	NA	2.64	1.28
AA-7	5/9/2014	17 J	<2.8	<5.6	<4.4	<5.4	<5.4	<5.4	<3.6	<3.5	<3.6	<3.5	<3.5	3.7 J	<3.9	<6.8	<8.8>	0.83 J	<6.1	<3.5	<4.9	<4.8	<4.4	<4.4	<3.9	<3.9
/ VA-1	2/18/2015	NA	0.831	0.392	<0.0977	<0.120	<0.120	<0.120	<0.0809	<0.0793	0.207	<0.0793	<0.0793	NA	0.150J	0.504	NA	NA	<0.136	0.504	<0.109	0.672	NA	NA	0.408J	0.191J
Regional Screenir Industrial Air (μg/ι or HI=1	ng Level (RSL) for m3) @ TCR = 1E-06	140,000	1.6	2	0.53	88	NE	1.1	7.7	88	0.47	NE	NE	NE	4.9	NE	88	310	18	2,200	2,200	3	3.1	NE	44	44

Notes:
BOLD values indicate an exceedance of a published regulatory threshold
EPA Regional Screening Levels for Chemical Contaminants at Superfund Sites, January 2015
μg/m³ = micrograms per cubic meter
< = Not Detected above laboratory detection limit; NE = Not Established
NA = Not Analyzed (not included in analtyical list due to SIM method)

FORM A-2 BUILDING INFORMATION FORM

Date: 218/15 Time: 0800 Inspector: G. Kanell's
Pictures Allowed: ☑ Yes ☐ No
Sample No
Address: 2013 W. Meeting St. Lancaster, SC
Contact Name: NA
Years at this Address: NA
BUILDING TYPE: One story: Multi-story Brick Siding Stucco
WEATHER SEALS: General Condition: Good Fair Poor (roof leaks)
BASEMENT: None Unfinished Unfinished Depth below grade
Partial
Full
Crawl space na na
Foundation construction: Poured concrete 🖾 Cinder block
Condition at floor/wall joint (if visible) Good
Floor drains, sump fason
Vents, fans, windows fignt
Floor condition (type, cracks, drains) Good few drains / monitor walls
Wall openings, utility pipe penetrations exqust fans and lowers
Moisture Condition (dry, damp, wet) $\mathcal{D}rV$
FURNACE: Location: office area heated (roof mounted) Type: gas proced air
oil hot water
electric other
Blower capacity (if applicable)
Does furnace have outside combustion air vent?
Winter temperature setting: daynight

AIR CONDITIONER: None	Central X (if yes, capacity?) Room
(If yes, which rooms and capaciti	ies? NH
RADON SYSTEM: Yes No ×	? If yes, floor scaled?
Floor drain/sump vent?	
Pictures Taken:	
1. sample beatlons	
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FORM A-3 TENANT QUESTIONNAIRE

VOCs are found in outside air and in the air inside of buildings. VOCs can be found in solvents and other household items such as pesticides, insecticides, adhesives, aerosols, paints, coatings, dry cleaning, carpet and drapery cleaning fluids, and household spot removers. Other common VOC sources include telephone and computer cables, plastic items, vinyl cove molding, PVC plumbing, linoleum, concrete blocks, latex paint, carpet padding, foam rubber, lubricants, and cosmetics.

Your answer to the following questions will help us determine if VOC sources exist in your building. Please answer each question to the best of your knowledge.

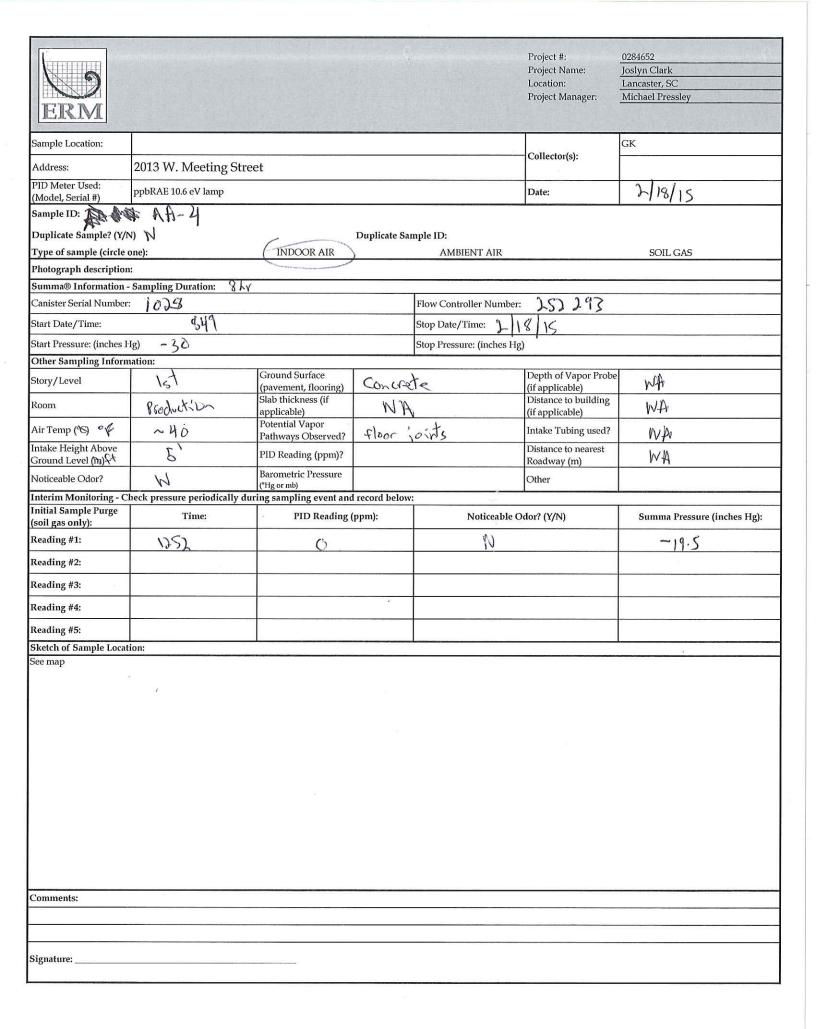
1.	Wh	nen was the last time dry-cleaned	clothes wer	e brought into the	ne building?
		☐ 0 to 5 days ago	☐ 6 to 1	0 days ago	More than 10 days ago
2.	Wh	nen was the carpet installed?			
		☐ In the last six months	\bigvee_{N}	lore than six mo	onths ago
	3.	When was the last time the carp	et was clear	ned?	
		☐ In the last six month	\nearrow M	lore than six mo	nths ago
	4.	Are there any spot removers in	the building	g?	
		Yes	P	No	
	5.	Do your tasks include model by require paints, thinners, solvent		and crafts, mode	el railroading metal cleaning, or others that
		☐ Yes	X	No	
	6.	Is automotive or other vehicle r	maintenance	or repair perfor	ned at the building?
		Yes	7E)	No	
	7.	Please review the following list	, and check	items you know	are in the building.
		□at ex caulk			
		latex paint			
		i nyl cove molding			
		n oleum tile			
		☐ Large diameter telephone of	cable		
		Small diameter telephone of	cable		
		Tack rubber molding			
		nyl edge molding			

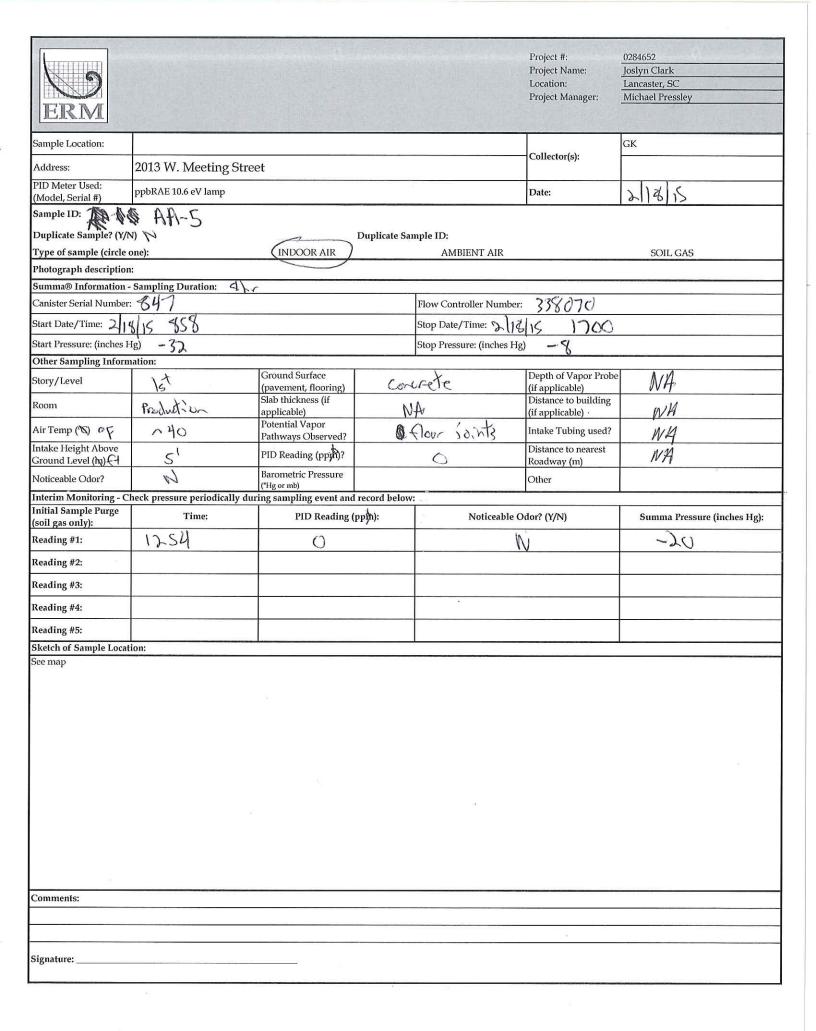
Lb lystyr	ene foam insulation		
ement l	olock		
□reated r	netal roofing		
8. Are there any	pesticides in the buildin	g?	
☐ Yes	NX	Uns_	ure
9. Are there any	spray insecticides in the		
☐ Yes	No 🏹	Und	ure
10. Has the building	g interior been painted i		
Qes	No No	and an inontary	
11. Has the buildin	g exterior been painted i	n the last 12 months?	
\Box_{es}	⊠ No	THE THE MORE	
12. If question 10 o	r 11 is yes, please indica	te what naint was noo.	A
[_nam el		mac paint was used	u.
☐ Vinyl			
☐ Latex			. 4
☐ Other			
·		÷	
13. Where are paint,	thinner, pesticides, insec	ticides stored?	
☐ Garage		•	
Basement			
torage shed			
☐ Other			
These are not	stored in the building.		
	3	÷	
14. Are there pets or ot	her animals in the buildi	ıg?	
es	No No		
If yes, what type? If yes, number			

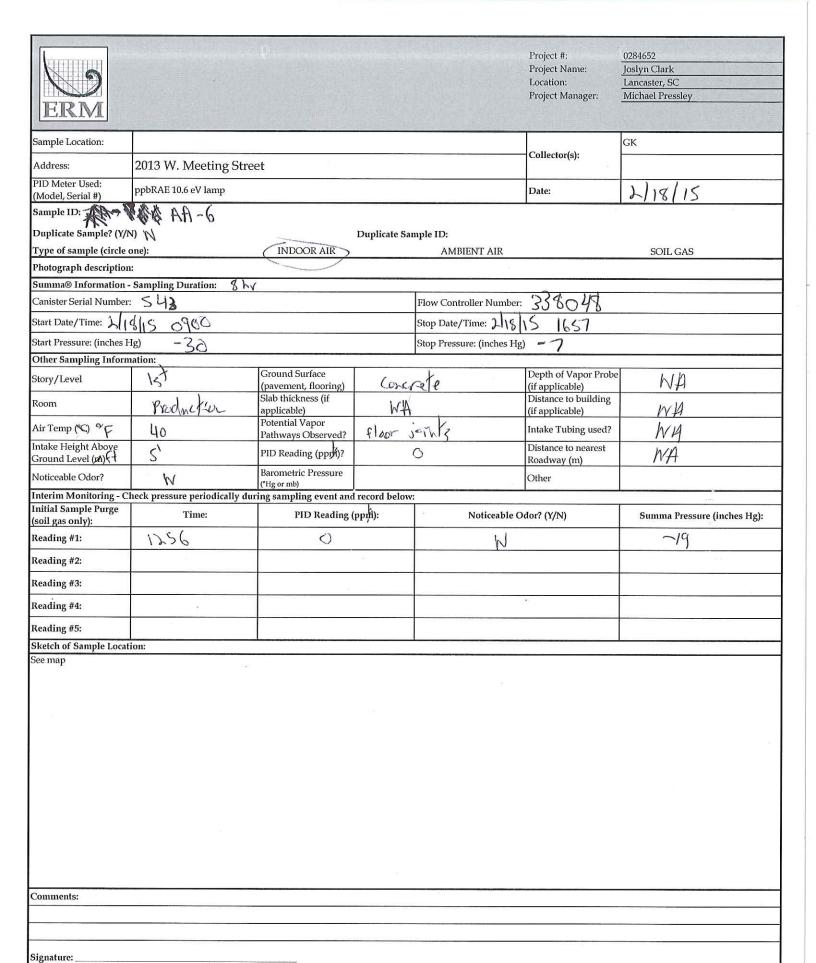
ERM ERM					Project #: Project Name: Location: Project Manager:	Joslyn Clark Lancaster, SC Michael Pressley			
Sample Location:		r				GK			
Address:	2013 W. Meeting Stree	et			Collector(s):	9			
PID Meter Used:	ppbRAE 10.6 eV lamp			20,	Date:	2/18/15			
(Model, Serial #) Sample ID:					Prof. BANGOSEV	0(10(1)			
Duplicate Sample? (Y/N	POTOTAL DESCRIPTION OF THE PROPERTY OF THE PRO		Duplicate San	nple ID:					
Type of sample (circle of		INDOOR AIR	\	AMBIENT AIR		SOIL GAS			
Photograph description)						
Summa® Information -	Sampling Duration: $\int \int_{V}$								
Canister Serial Number				Flow Controller Number:	339183				
Start Date/Time: 214	115 827			Stop Date/Time:	15 1641				
Start Pressure: (inches I				Stop Pressure: (inches Hg)	MA				
Other Sampling Information:									
Story/Level	157	Ground Surface (pavement, flooring)	concret	e	Depth of Vapor Probe (if applicable)	NA			
Room	Bodyd Dr	Slab thickness (if applicable)	WA		Distance to building (if applicable)	NA			
Air Temp (℃) ° √	~40	Potential Vapor Pathways Observed?	floor	oilts	Intake Tubing used?	NA			
Intake Height Above Ground Level (m)	ις'	PID Reading (pp)n)?	0		Distance to nearest Roadway (m)	NA			
Noticeable Odor?	N	Barometric Pressure ("Hg or mb)	\te		Other				
Interim Monitoring - C	ı heck pressure periodically dur		record below:						
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):			
Reading #1:	1246	6)	W		-17			
Reading #2:			7			4 3			
Reading #3:									
Reading #4:	•		2			•			
Reading #5:		0			9				
Sketch of Sample Locat See map	ion:					· ·			
ja						ë			
Comment	w								
Comments:									
			_						
		W. W	· · · · · · · · · · · · · · · · · · ·						
Signature:									

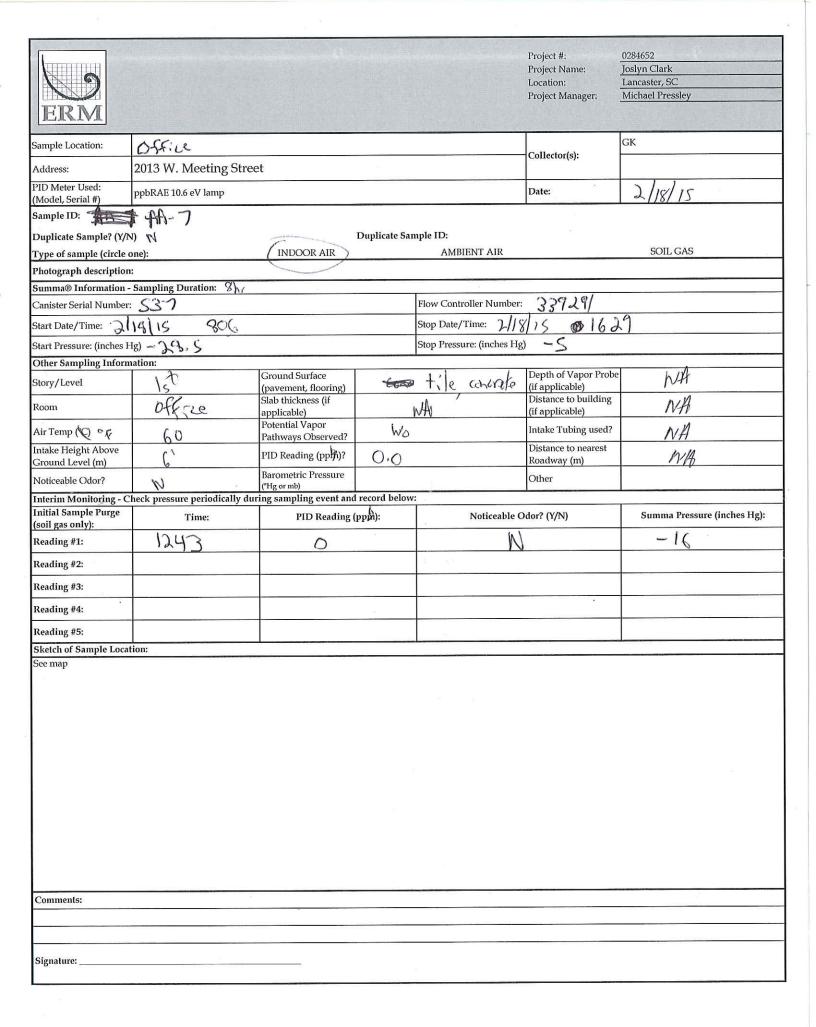
9 ERM					Project #: Project Name: Location: Project Manager:	0284652 Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:					newater sail to	GK
Address:	2013 W. Meeting Stree	et			Collector(s):	
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp				Date:	2/14/15
Sample ID:	* AA-2		1			
Duplicate Sample? (Y/N			Duplicate San	nple ID:		
Type of sample (circle o		(INDOOR AIR		AMBIENT AIR		SOIL GAS
Photograph description						
Summa® Information -					221.00	
Canister Serial Number:	11 (30	100000000000000000000000000000000000000	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Flow Controller Number:	, , , , ,	
Start Date/Time: 入口	01 12 -0 1			Stop Date/Time: 3.114	5/13 10/16	53
Start Pressure: (inches I	·			Stop Pressure: (inches Hg	-6,5	
Other Sampling Inform	1	Ground Surface			D 4 (11 D 1	
Story/Level	Ist	(pavement, flooring)	Conce	12	Depth of Vapor Probe (if applicable)	NA
Room	Plating	Slab thickness (if applicable)	NA		Distance to building (if applicable)	WA
Air Temp (🕏) 🤊 🦵	~40	Potential Vapor Pathways Observed?	floor joi	nts, trenches	Intake Tubing used?	AU
Intake Height Above Ground Level (m)	ц' .	PID Reading (ppin)?	0		Distance to nearest Roadway (m)	NA
Noticeable Odor?	N	Barometric Pressure ("Hg or mb)			Other	9
	heck pressure periodically dur	ing sampling event and	l record below:			
Initial Sample Purge (soil gas only):	Time:	PID Reading ((pp p):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	1248	0		W		-18.S
Reading #2:						8
Reading #3:						
Reading #4:		1				
Reading #5:						
Sketch of Sample Locat See map	ion:				7	
1						×
						*
Comments:						-
	HENNESS CONTRACTOR			H Control of the Cont		
	10.100111111111111111111111111111111111			50000000000000000000000000000000000000		
Signature:						e .

ERM					Project #: Project Name: Location: Project Manager:	O284652 Joslyn Clark Lancaster, SC Michael Pressley			
Sample Location:						GK			
Address:	2013 W. Meeting Stree	et			Collector(s):	ži.			
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp				Date:	8/18/15			
1000	MAR AR-3	(L	1 7101()			
Duplicate Sample? (Y/N		8	Duplicate San	nple ID:					
Type of sample (circle o		INDOOR AIR		AMBIENT AIR		SOIL GAS			
Photograph description									
Summa® Information -					2 20211				
Canister Serial Number:				Flow Controller Number:	303934				
Start Date/Time: 2 14/15									
Start Pressure: (inches H				Stop Pressure: (inches Hg)		A			
Other Sampling Information: Ground Surface Depth of Vapor Probe Depth of Vapor Probe									
Story/Level	131	(pavement, flooring)	conc	rete	(if applicable)	I NA I			
Room	Storage	Slab thickness (if applicable)	WY	\	Distance to building (if applicable)	NA			
Air Temp (C)	~40	Potential Vapor Pathways Observed?	No		Intake Tubing used?	NA			
Intake Height Above Ground Level (pt)	SÍ	PID Reading (ppin)?	Ó		Distance to nearest Roadway (m)	NA			
Noticeable Odor?	N	Barometric Pressure ("Hg or mb)		Other					
Interim Monitoring - Check pressure periodically during sampling event and record below:									
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppp):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):			
Reading #1:	1250	0		N		-21.5			
Reading #2:	(5)				p = 5	18 II.			
Reading #3:									
Reading #4:				- carried of the solution					
Reading #5:									
Sketch of Sample Locati See map	ion:		tre and a second second		and the state of the state of				
Comments:									
and the second s	- Action on a Table - see Characteristic Children								
Signature:									









ERM					Project #: Project Name: Location: Project Manager:	O284652 Joslyn Clark Lancaster, SC Michael Pressley				
Sample Location:	Flag gile					GK				
Address:	2013 W. Meeting Stree	et			Collector(s):					
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp	A			Date:	2/18/15				
Sample ID: CA	70									
Duplicate Sample? (Y/N	1) N (1		Duplicate San	nple ID:						
Type of sample (circle o	one):	INDOOR AIR		AMBIENT AIR		SOIL GAS				
Photograph description				And the second of the second o						
Summa® Information -				The second secon	5 111					
Canister Serial Number:	3 201			Flow Controller Number:	2) 100 1					
Start Date/Time:	18/15 756			Stop Date/Time:	8/12 1895					
	Start Pressure: (inches Hg) Stop Pressure: (inches Hg)									
Other Sampling Inform		Ia 10 (I			D 4 (U D 1					
Story/Level	outside	Ground Surface (pavement, flooring)	grass		Depth of Vapor Probe (if applicable)	WA				
Room	NA	Slab thickness (if applicable)	WF	b	Distance to building (if applicable)	NA				
Air Temp (℃ ♥	30-40	Potential Vapor Pathways Observed?	N¥)	Intake Tubing used?	WA				
Intake Height Above Ground Level (m)	e'	PID Reading (ppin)?	0.0)	Distance to nearest Roadway (m)	WA				
Noticeable Odor?	W	Barometric Pressure ("Hg or mb)		Other						
	heck pressure periodically dur	ing sampling event and	record below:							
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):				
Reading #1:	44	`		N		~»», S				
Reading #2:	1238	,		N		-13				
Reading #3:										
Reading #4:										
Reading #5:										
Sketch of Sample Locat: See map	ion:									
*		c				e				
				•						
Comments:		NAME OF TAXABLE PARTY.								
					1000					
Signature:			柳							

Fig.

ERM					Project #: Project Name: Location: Project Manager:	Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:	production he	ear column	I I	3		GK
Address:	2013 W. Meeting Stree				Collector(s):	
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp	,	============		Date:	2/19/15
Sample ID: 33-1						07. /
Duplicate Sample? (Y/N	1) N		Duplicate Sai	nple ID:		
Type of sample (circle o		INDOOR AIR		AMBIENT AIR		SOIL GAS
Photograph description						
Summa® Information - Canister Serial Number:				Flow Controller Number	202/121	
Start Date/Time: 3	19/12 1101		<u> </u>	Stop Pressure: (inches H	9/15 1146 (g) -5	<u> </u>
Other Sampling Inform				Stop Pressure: (Inches Fi	(g) - <u>y</u>	
Story/Level	15+	Ground Surface	Corlx	ok	Depth of Vapor Probe	5"
Room	Production	(pavement, flooring) Slab thickness (if	611	Z11	(if applicable) Distance to building	NA
Air Temp (°C)	NA	applicable) Potential Vapor	.EL	Joints	(if applicable) Intake Tubing used?	Teflon
Intake Height Above	NA	Pathways Observed? PID Reading (ppm)?	34	Jajuls	Distance to nearest	NA
Ground Level (m) Noticeable Odor?	Wo	Barometric Pressure ("Hg or mb)	31		Roadway (m) Other	10/10
	heck pressure periodically du		record below			49
Initial Sample Purge (soil gas only):	- Time:	PID Reading (ppm):	Noticeable	Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:	Spiller sur-		11	-	350	- *
Reading #2:		A STATE OF				2 -
Reading #3:				e.		
Reading #4:						
Reading #5:	- 20					-
Sketch of Sample Locat	ion:					
See map			Š.		HS	
						9
8 5						
Comments: Hel	um Tracer Tes	t: 25% in	Shood	1 000	Tedlar = A	On SiGed
	Tracer 1es	2//1	>N1046	i oppm in	jediar - f	m 1540

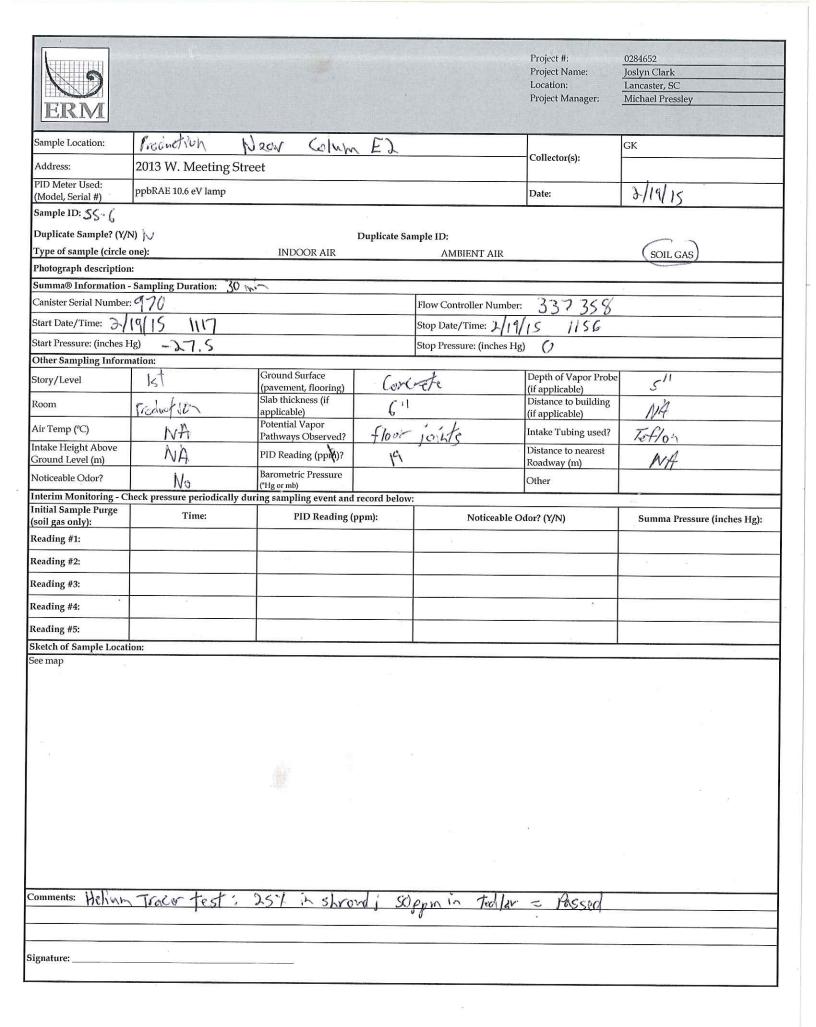
Signature:	5 M _p	=				=
		AND THE RESERVE OF THE PARTY OF	74.52.5 _{3.5}	- 1,		

9 ERM					Location:	O284652 Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:	Plating					GK
Address:	2013 W. Meeting Stree	et			Collector(s):	
PID Meter Used:	ppbRAE 10.6 eV lamp				Date:	alcelic
(Model, Serial #) Sample ID: 55-2						MUID
Duplicate Sample? (Y/N	א וא		Duplicate Sar	nnle ID:		
Type of sample (circle of		INDOOR AIR	2 apricate our	AMBIENT AIR		(SOIL GAS)
Photograph description				9		
Summa® Information -	Sampling Duration: 30 %	13/				4
Canister Serial Number:	: 1049			Flow Controller Number:	339163	
Start Date/Time: 2	19/15 1109			Stop Date/Time:		
Start Pressure: (inches I	Hg) ~30			Stop Pressure: (inches Hg		
Other Sampling Inform				<u> </u>	F-War at No. of the block and the state of t	
Story/Level	(5)	Ground Surface (pavement, flooring)	Concr	rete	Depth of Vapor Probe (if applicable)	511
Room	Plating	Slab thickness (if applicable)	611		Distance to building (if applicable)	NA
Air Temp (°C)	MA	Potential Vapor Pathways Observed?	Sumps	0	Intake Tubing used?	Tetlon
Intake Height Above Ground Level (m)	AU	PID Reading (ppin)?	1775		Distance to nearest Roadway (m)	
Noticeable Odor?	No	Barometric Pressure ("Hg or mb)			Other	
Interim Monitoring - C	heck pressure periodically du		record below:			- 37
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:					5	
Reading #2:		-	-			e *
Reading #3:						
Reading #4:			*			
Reading #5:						
Sketch of Sample Locat	ion:				P)(
See map		9				
Comments: Heli	who Tracer:	30% in shr	odi 7	Sppin in Tedla	r = passed	
	A - A - A - A - A - A - A - A - A - A -			S015711111		
Signature:						

ERM ERM					Project #: Project Name: Location: Project Manager:	Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:	storage room					GK
Address:	2013 W. Meeting Stree	et :			Collector(s):	
PID Meter Used:	ppbRAE 10.6 eV lamp				Date:	Miele
(Model, Serial #) Sample ID: \$5-3	pperail 1000 c 1 mmp				Date,	H19/15
	n 6.1		<u> </u>		æ	
Duplicate Sample? (Y/N Type of sample (circle o		INDOOR AIR	Duplicate Sar	nple ID: AMBIENT AIR		SOIL GAS
Photograph description	COLUMN TO SECURE OF THE PROPERTY OF THE PROPER	INDOORAIK		AMDIENT AIK		SOILGAS
Summa® Information -		Nin				
Canister Serial Number:				Flow Controller Number:	329137	
Start Date/Time: '1	9/15 1112			Stop Date/Time: 1/1	9/15 1154	24
Start Pressure: (inches H	4		Stop Pressure: (inches Hg)	1		
Other Sampling Inform					<u> </u>	
Story/Level	Ist	Ground Surface (pavement, flooring)	Concret	é	Depth of Vapor Probe (if applicable)	3"
Room	storage	Slab thickness (if applicable)	C1'		Distance to building (if applicable)	NA
Air Temp (℃)	NA	Potential Vapor Pathways Observed?	No	Intake Tubing used?		Teflor
Intake Height Above Ground Level (m)	MA	PID Reading (pp)n)?	26		Distance to nearest Roadway (m)	NA
Noticeable Odor?	No			Other		
	neck pressure periodically dur	("Hg or mb) ing sampling event and	record below:			197
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:						9
Reading #2:				P B		
Reading #3:						
Reading #4:		27				
Reading #5:	a a					
Sketch of Sample Locati See map	ion:					
Comments: He	inn Tracer Tes	1: 30% in	strond;	O Apm in	Ted/ar = fas	SeÖ
Signature:						

5 ERM					Project #: Project Name: Location: Project Manager:	0284652 Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:	Near column	· ()		2		GK
Address:	2013 W. Meeting Stree				Collector(s):	
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp		<u> </u>		Date:	2/19/15
Sample ID: 55	ı.	5			I	01110
Duplicate Sample? (Y/N	State of the state		Duplicate San	nnle ID:		
Type of sample (circle of	est a	INDOOR AIR	Duplicate oan	AMBIENT AIR		SOIL GAS
Photograph description				TIMDIDITI TIII		DOID GID
Summa® Information -		nih				
Canister Serial Number:		*		Flow Controller Number:	301070	1
Start Date/Time: 3	119/15 1113	7			9/15 1143	
Start Pressure: (inches H	- 1	Stop Pressure: (inches Hg				
Other Sampling Inform		Treasure and the same and the s		Diop Tressure. (menes 116	, -3	THE RESIDENCE OF THE PROPERTY
Story/Level	ist	Ground Surface	(Cat	Depth of Vapor Probe	5"
Room	radiation	(pavement, flooring) Slab thickness (if applicable)	Cenc.	700	(if applicable) Distance to building (if applicable)	NA
Air Temp (°C)	AW	Potential Vapor Pathways Observed?		or joints	Intake Tubing used?	Teflon
Intake Height Above Ground Level (m)	NI	PID Reading (ppin)?	79	**************************************	Distance to nearest Roadway (m)	NA
Noticeable Odor?	No	Barometric Pressure		10 (0,0)	Other	
Interim Monitoring - Cl	heck pressure periodically dur	("Hg or mb) ing sampling event and	record below:			
Initial Sample Purge	Time:	. PID Reading (Noticeable O	dor? (Y/N)	Summa Pressure (inches Hg):
(soil gas only): Reading #1:	<u></u>				(-7-1)	(wance 1.g)
Reading #2:	(50)				¥	
Reading #3:			Xe		0 0 0 0 0 0	
Reading #4:						*
Reading #5:		>				
Sketch of Sample Locat See map	ion:					
	m Tracer Rest: 2	o'is Helinna's	- shoud	j soppmin	Tedlar = Po	c,sel
				£		
Signature:					¥	

ERM.					Project #: Project Name: Location: Project Manager:	0284652 Joslyn Clark Lancaster, SC Michael Pressley
Sample Location:	Neor column	E7				GK
Address:	2013 W. Meeting Stre	eet			Collector(s):	
PID Meter Used: (Model, Serial #)	ppbRAE 10.6 eV lamp			***************************************	Date:	2/19/15
Sample ID: 555				6		
Duplicate Sample? (Y/N	125 A		Duplicate Sar	nple ID;		
Type of sample (circle o		INDOOR AIR		AMBIENT AIR		SOIL GAS
Photograph description		,			****	
Summa® Information -		Nik			21/0101	
Canister Serial Number:	17			Flow Controller Number	210 11	
Start Date/Time: 2	1117			Stop Date/Time: 19	11.)	
Start Pressure: (inches H				Stop Pressure: (inches H	g) - 5	
Other Sampling Inform		Ground Surface	/	1.	Depth of Vapor Probe	
Story/Level	13	(pavement, flooring)	Concr	रार	(if applicable)	5"
Room	Production	Slab thickness (if applicable)	60		Distance to building (if applicable)	NA
Air Temp (°C)	Abs	Potential Vapor Pathways Observed?	S 60,	Soints	Intake Tubing used?	Teflen
Intake Height Above Ground Level (m)	AU	PID Reading (ppin)?	PID Reading (ppin)?			WA
Noticeable Odor?	(N)	Barometric Pressure ("Hg or mb)			Other	E. 34
	ieck pressure periodically du	ring sampling event and	record below:	No. STOREGE CO.	41	and Windows and State of State
Initial Sample Purge (soil gas only):	Time:	PID Reading (ppm):	Noticeable (Odor? (Y/N)	Summa Pressure (inches Hg):
Reading #1:						
Reading #2:		• •		13		0
Reading #3:						
Reading #4:			-			*
Reading #5;		- Contraction of the Contraction				
Sketch of Sample Locati See map	on:					
Comments: Hali	in Tracerte	st: 251. 5	Shraid	1 Oppra in t	redian - Pass	-()
			504	· **		
Signature:				-5		
			- Charles	Marie Control of the		



Analysis Report

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REVISED

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 ERM 15720 Brixham Hill Avenue Suite 120 Charlotte NC 28277

April 16, 2015

Project: Joslyn Clark 0284652

Submittal Date: 02/23/2015 Group Number: 1540449 PO Number: 0284652 State of Sample Origin: NC

7781500
7781501
7781502
7781503
7781504
7781505

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

ELECTRONIC ERM Attn: Michael Pressley COPY TO

Analysis Report

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REVISED

Respectfully Submitted,

Megan A. Moeller Senior Specialist

(717) 556-7261



Analysis Report

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REVISED

Sample Description: SS-6 Air

Joslyn Clark 0284652

LL Sample # AQ 7781500 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:17 by GK

through 02/19/2015 11:56 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

970--

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Acetone	67-64-1	23	0.50	54	1.2	1
05298	Benzene	71-43-2	N.D.	0.20	N.D.	0.64	1
05298	Benzyl Chloride	100-44-7	N.D.	0.50	N.D.	2.6	1
05298	Bromodichloromethane	75-27-4	N.D.	0.20	N.D.	1.3	1
05298	Bromoform	75-25-2	N.D.	0.20	N.D.	2.1	1
05298	Bromomethane	74-83-9	N.D.	0.20	N.D.	0.78	1
05298	1,3-Butadiene	106-99-0	N.D.	0.40	N.D.	0.88	1
05298	2-Butanone	78-93-3	2.3	0.50	6.9	1.5	1
05298	Carbon Disulfide	75-15-0	1.6	0.50	4.9	1.6	1
05298	Carbon Tetrachloride	56-23-5	N.D.	0.20	N.D.	1.3	1
05298	Chlorobenzene	108-90-7	N.D.	0.20	N.D.	0.92	1
05298	Chloroethane	75-00-3	N.D.	0.20	N.D.	0.53	1
05298	Chloroform	67-66-3	N.D.	0.20	N.D.	0.98	1
05298	Chloromethane	74-87-3	N.D.	0.20	N.D.	0.41	1
05298	3-Chloropropene	107-05-1	N.D.	0.20	N.D.	0.63	1
05298	Cumene	98-82-8	N.D.	0.20	N.D.	0.98	1
05298	Cyclohexane	110-82-7	N.D.	0.20	N.D.	0.69	1
05298	Dibromochloromethane	124-48-1	N.D.	0.20	N.D.	1.7	1
05298	1,2-Dibromoethane	106-93-4	N.D.	0.20	N.D.	1.5	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.	0.20	N.D.	1.2	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.	0.20	N.D.	1.2	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.	0.20	N.D.	1.2	1
05298	Dichlorodifluoromethane	75-71-8	0.55 J	0.50	2.7 J	2.5	1
05298	1,1-Dichloroethane	75-34-3	N.D.	0.20	N.D.	0.81	1
05298	1,2-Dichloroethane	107-06-2	N.D.	0.20	N.D.	0.81	1
05298	1,1-Dichloroethene	75-35-4	N.D.	0.20	N.D.	0.79	1
05298	cis-1,2-Dichloroethene	156-59-2	0.20 J	0.20	0.80 J	0.79	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	0.20	N.D.	0.79	1
05298	1,2-Dichloropropane	78-87-5	N.D.	0.20	N.D.	0.92	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.20	N.D.	0.91	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.20	N.D.	0.91	1
05298	1,4-Dioxane	123-91-1	N.D.	0.50	N.D.	1.8	1
05298	Ethanol	64-17-5	14	0.50	26	0.94	1
05298	Ethylbenzene	100-41-4	1.1	0.20	4.9	0.87	1
05298	4-Ethyltoluene	622-96-8	N.D.	0.20	N.D.	0.98	1
05298	Freon 113	76-13-1	N.D.	0.50	N.D.	3.8	1
05298	Freon 114	76-14-2	N.D.	0.20	N.D.	1.4	1
05298	Heptane	142-82-5	N.D.	0.20	N.D.	0.82	1
05298 05298	Hexachlorobutadiene	87-68-3	N.D.	0.40	N.D.	4.3	1 1
	Hexane	110-54-3	N.D.	0.20	N.D.	0.70	
05298 05298	2-Hexanone	591-78-6 540-84-1	N.D. N.D.	0.50	N.D. N.D.	2.0 0.93	1 1
05298	Isooctane	67-63-0	N.D. 5.8	0.20 0.50	N.D. 14	1.2	1
05298	Isopropanol Methyl t-Butyl Ether	1634-04-4	N.D.	0.20	N.D.	0.72	1
05298	4-Methyl-2-pentanone	1034-04-4	N.D.	0.20	N.D.	2.0	1
05298	Methylene Chloride	75-09-2	N.D.	0.20	N.D.	0.69	1
05298	n-Propylbenzene	103-65-1	N.D.	0.20	N.D.	0.98	1
05298	Styrene	100-42-5	N.D.	0.20	N.D.	0.85	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.20	N.D.	1.4	1
05298	Tetrachloroethene	127-18-4	7.9	0.20	54	1.4	1
05298	Tetrahydrofuran	109-99-9	N.D.	0.20	N.D.	0.59	1
05298	Toluene	108-88-3	0.43 J	0.20	1.6 J	0.75	1
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Analysis Report

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REVISED

Sample Description: SS-6 Air

Joslyn Clark 0284652

LL Sample # AQ 7781500 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:17 by GK

through 02/19/2015 11:56 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

970--

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.50	N.D.	3.7	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.	0.20	N.D.	1.1	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.	0.20	N.D.	1.1	1
05298	Trichloroethene	79-01-6	0.27 J	0.20	1.4 J	1.1	1
05298	Trichlorofluoromethane	75-69-4	0.24 J	0.20	1.3 J	1.1	1
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.20	N.D.	0.98	1
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.20	N.D.	0.98	1
05298	Vinyl Chloride	75-01-4	N.D.	0.20	N.D.	0.51	1
05298	m/p-Xylene	179601-23-1	4.3	0.20	19	0.87	1
05298	o-Xylene	95-47-6	1.3	0.20	5.7	0.87	1

ERM

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AA	03/03/2015 20:36	Michael A Ziegler	1



Analysis Report

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REVISED

Sample Description: SS-5 Air

Joslyn Clark 0284652

LL Sample # AQ 7781501 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:15 by GK

through 02/19/2015 11:55 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

975--

CAT No.	Analysis Name	CAS Number	Final	Result	MDL	Final	Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)		ppb(v)	ug/m3		ug/m3	
05298	Acetone	67-64-1	47		0.50	110		1.2	1
05298	Benzene	71-43-2	0.50	J	0.20	1.6	J	0.64	1
05298	Benzyl Chloride	100-44-7	N.D.		0.50	N.D.		2.6	1
05298	Bromodichloromethane	75-27-4	N.D.		0.20	N.D.		1.3	1
05298	Bromoform	75-25-2	N.D.		0.20	N.D.		2.1	1
05298	Bromomethane	74-83-9	N.D.		0.20	N.D.		0.78	1
05298	1,3-Butadiene	106-99-0	N.D.		0.40	N.D.		0.88	1
05298	2-Butanone	78-93-3	7.4		0.50	22		1.5	1
05298	Carbon Disulfide	75-15-0	N.D.		0.50	N.D.		1.6	1
05298	Carbon Tetrachloride	56-23-5	N.D.		0.20	N.D.		1.3	1
05298	Chlorobenzene	108-90-7	N.D.		0.20	N.D.		0.92	1
05298	Chloroethane	75-00-3	N.D.		0.20	N.D.		0.53	1
05298	Chloroform	67-66-3	N.D.		0.20	N.D.		0.98	1
05298	Chloromethane	74-87-3	0.51	J	0.20	1.1	J	0.41	1
05298	3-Chloropropene	107-05-1	N.D.		0.20	N.D.		0.63	1
05298	Cumene	98-82-8	N.D.		0.20	N.D.		0.98	1
05298	Cyclohexane	110-82-7	N.D.		0.20	N.D.		0.69	1
05298	Dibromochloromethane	124-48-1	N.D.		0.20	N.D.		1.7	1
05298	1,2-Dibromoethane	106-93-4	N.D.		0.20	N.D.		1.5	1
05298	1,2-Dichlorobenzene	95-50-1	N.D.		0.20	N.D.		1.2	1
05298	1,3-Dichlorobenzene	541-73-1	N.D.		0.20	N.D.		1.2	1
05298	1,4-Dichlorobenzene	106-46-7	N.D.		0.20	N.D.		1.2	1
05298	Dichlorodifluoromethane	75-71-8	0.55	J	0.50	2.7	J	2.5	1
05298	1,1-Dichloroethane	75-34-3	N.D.		0.20	N.D.		0.81	1
05298	1,2-Dichloroethane	107-06-2	N.D.		0.20	N.D.		0.81	1
05298	1,1-Dichloroethene	75-35-4	N.D.		0.20	N.D.		0.79	1
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		0.20	N.D.		0.79	1
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		0.20	N.D.		0.79	1
05298	1,2-Dichloropropane	78-87-5	N.D.		0.20	N.D.		0.92	1
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.20	N.D.		0.91	1
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.20	N.D.		0.91	1
05298	1,4-Dioxane	123-91-1	N.D.		0.50	N.D.		1.8	1
05298	Ethanol	64-17-5	17		0.50	32		0.94	1
05298	Ethylbenzene	100-41-4	0.20	J	0.20	0.88	J	0.87	1
05298	4-Ethyltoluene	622-96-8	N.D.		0.20	N.D.		0.98	1
05298	Freon 113	76-13-1	N.D.		0.50	N.D.		3.8	1
05298	Freon 114	76-14-2	N.D.		0.20	N.D.		1.4	1
05298	Heptane	142-82-5	N.D.		0.20	N.D.		0.82	1
05298	Hexachlorobutadiene	87-68-3	N.D.		0.40	N.D.		4.3	1
05298	Hexane	110-54-3	N.D.		0.20	N.D.		0.70	1
05298	2-Hexanone	591-78-6	0.51	J	0.50	2.1	J	2.0	1
05298	Isooctane	540-84-1	N.D.		0.20	N.D.		0.93	1
05298	Isopropanol	67-63-0	6.4		0.50	16		1.2	1
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		0.20	N.D.		0.72	1
05298	4-Methyl-2-pentanone	108-10-1	N.D.		0.50	N.D.		2.0	1
05298	Methylene Chloride	75-09-2	N.D.		0.20	N.D.		0.69	1
05298	n-Propylbenzene	103-65-1	N.D.		0.20	N.D.		0.98	1
05298	Styrene	100-42-5	N.D.		0.20	N.D.		0.85	1
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.20	N.D.		1.4	1
05298	Tetrachloroethene	127-18-4	0.35	J	0.20	2.4	J	1.4	1
05298	Tetrahydrofuran	109-99-9	N.D.		0.20	N.D.		0.59	1
05298	Toluene	108-88-3	3.6		0.20	13		0.75	1



Analysis Report

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REVISED

Sample Description: SS-5 Air

Joslyn Clark 0284652

LL Sample # AQ 7781501 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:15 by GK

through 02/19/2015 11:55 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

975--

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.50	N.D.	3.7	1
05298	1,1,1-Trichloroethane	71-55-6	N.D.	0.20	N.D.	1.1	1
05298	1,1,2-Trichloroethane	79-00-5	N.D.	0.20	N.D.	1.1	1
05298	Trichloroethene	79-01-6	5.5	0.20	29	1.1	1
05298	Trichlorofluoromethane	75-69-4	0.23 J	0.20	1.3 J	1.1	1
05298	1,2,4-Trimethylbenzene	95-63-6	0.77 J	0.20	3.8 J	0.98	1
05298	1,3,5-Trimethylbenzene	108-67-8	0.27 J	0.20	1.4 J	0.98	1
05298	Vinyl Chloride	75-01-4	N.D.	0.20	N.D.	0.51	1
05298	m/p-Xylene	179601-23-1	1.7	0.20	7.5	0.87	1
05298	o-Xylene	95-47-6	0.59 J	0.20	2.6 J	0.87	1

ERM

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AA	03/03/2015 21:24	Michael A Ziegler	1



Analysis Report

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REVISED

Sample Description: SS-2 Air

Joslyn Clark 0284652

LL Sample # AQ 7781502 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:09 by GK

through 02/19/2015 11:54 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1049-

CAT No.	Analysis Name	CAS Number	Final F	Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)		ppb(v)	ug/m3	ug/m3	
05298	Acetone	67-64-1	390	J	100	940 J	240	200
05298	Benzene	71-43-2	N.D.		40	N.D.	130	200
05298	Benzyl Chloride	100-44-7	N.D.		100	N.D.	520	200
05298	Bromodichloromethane	75-27-4	N.D.		40	N.D.	270	200
05298	Bromoform	75-25-2	N.D.		40	N.D.	410	200
05298	Bromomethane	74-83-9	N.D.		40	N.D.	160	200
05298	1,3-Butadiene	106-99-0	N.D.		80	N.D.	180	200
05298	2-Butanone	78-93-3	N.D.		100	N.D.	290	200
05298	Carbon Disulfide	75-15-0	200	J	100	620 J	310	200
05298	Carbon Tetrachloride	56-23-5	N.D.		40	N.D.	250	200
05298	Chlorobenzene	108-90-7	N.D.		40	N.D.	180	200
05298	Chloroethane	75-00-3	N.D.		40	N.D.	110	200
05298	Chloroform	67-66-3	N.D.		40	N.D.	200	200
05298	Chloromethane	74-87-3	N.D.		40	N.D.	83	200
05298	3-Chloropropene	107-05-1	N.D.		40	N.D.	130	200
05298	Cumene	98-82-8	N.D.		40	N.D.	200	200
05298	Cyclohexane	110-82-7	N.D.		40	N.D.	140	200
05298	Dibromochloromethane	124-48-1	N.D.		40	N.D.	340	200
05298	1,2-Dibromoethane	106-93-4	N.D.		40	N.D.	310	200
05298	1,2-Dichlorobenzene	95-50-1	N.D.		40	N.D.	240	200
05298	1,3-Dichlorobenzene	541-73-1	N.D.		40	N.D.	240	200
05298	1,4-Dichlorobenzene	106-46-7	N.D.		40	N.D.	240	200
05298	Dichlorodifluoromethane	75-71-8	N.D.		100	N.D.	490	200
05298	1.1-Dichloroethane	75-34-3	N.D.		40	N.D.	160	200
05298	1,2-Dichloroethane	107-06-2	N.D.		40	N.D.	160	200
05298	1,1-Dichloroethene	75-35-4	87	J	40	350 J	160	200
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	S	40	N.D.	160	200
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		40	N.D.	160	200
05298	1,2-Dichloropropane	78-87-5	N.D.		40	N.D.	180	200
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		40	N.D.	180	200
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		40	N.D.	180	200
05298	1,4-Dioxane	123-91-1	N.D.		100	N.D.	360	200
05298	Ethanol	64-17-5	590		100	1,100	190	200
05298	Ethylbenzene	100-41-4	N.D.		40	N.D.	170	200
05298	4-Ethyltoluene	622-96-8	N.D.		40	N.D.	200	200
05298	Freon 113	76-13-1	N.D.		100	N.D.	770	200
05298	Freon 114	76-14-2	N.D.		40	N.D.	280	200
05298	Heptane	142-82-5	N.D.		40	N.D.	160	200
05298	Hexachlorobutadiene	87-68-3	N.D.		80	N.D.	850	200
05298	Hexane	110-54-3	410		40	1,400	140	200
05298	2-Hexanone	591-78-6	N.D.		100	N.D.	410	200
05298	Isooctane	540-84-1	N.D.		40	N.D.	190	200
05298	Isopropanol	67-63-0	N.D.		100	N.D.	250	200
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		40	N.D.	140	200
05298	4-Methyl-2-pentanone	108-10-1	N.D.		100	N.D.	410	200
05298	Methylene Chloride	75-09-2	130	J	40	450 J	140	200
05298	n-Propylbenzene	103-65-1	N.D.	Ü	40	N.D.	200	200
05298	Styrene	100-42-5	N.D.		40	N.D.	170	200
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		40	N.D.	270	200
05298	Tetrachloroethene	127-18-4	61	J	40	410 J	270	200
05298	Tetrahydrofuran	109-99-9	N.D.	-	40	N.D.	120	200
05298	Toluene	108-88-3	96	J	40	360 J	150	200
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Analysis Report

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REVISED

Sample Description: SS-2 Air

Joslyn Clark 0284652

LL Sample # AQ 7781502 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:09 by GK

through 02/19/2015 11:54 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1049-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	100	N.D.	740	200
05298	1,1,1-Trichloroethane	71-55-6	N.D.	40	N.D.	220	200
05298	1,1,2-Trichloroethane	79-00-5	N.D.	40	N.D.	220	200
05298	Trichloroethene	79-01-6	2,800	40	15,000	210	200
05298	Trichlorofluoromethane	75-69-4	N.D.	40	N.D.	220	200
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.	40	N.D.	200	200
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.	40	N.D.	200	200
05298	Vinyl Chloride	75-01-4	N.D.	40	N.D.	100	200
05298	m/p-Xylene	179601-23-1	N.D.	40	N.D.	170	200
05298	o-Xylene	95-47-6	N.D.	40	N.D.	170	200

ERM

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AA	03/04/2015 10:14	Michael A Ziegler	200



Analysis Report

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REVISED

Sample Description: SS-3 Air

Joslyn Clark 0284652

LL Sample # AQ 7781503 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:12 by GK

through 02/19/2015 11:54 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1162-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Acetone	67-64-1	26	5.0	62	12	10
05298	Benzene	71-43-2	N.D.	2.0	N.D.	6.4	10
05298	Benzyl Chloride	100-44-7	N.D.	5.0	N.D.	26	10
05298	Bromodichloromethane	75-27-4	N.D.	2.0	N.D.	13	10
05298	Bromoform	75-25-2	N.D.	2.0	N.D.	21	10
05298	Bromomethane	74-83-9	N.D.	2.0	N.D.	7.8	10
05298	1,3-Butadiene	106-99-0	N.D.	4.0	N.D.	8.8	10
05298	2-Butanone	78-93-3	N.D.	5.0	N.D.	15	10
05298	Carbon Disulfide	75-15-0	N.D.	5.0	N.D.	16	10
05298	Carbon Tetrachloride	56-23-5	N.D.	2.0	N.D.	13	10
05298	Chlorobenzene	108-90-7	N.D.	2.0	N.D.	9.2	10
05298	Chloroethane	75-00-3	N.D.	2.0	N.D.	5.3	10
05298	Chloroform	67-66-3	35	2.0	170	9.8	10
05298	Chloromethane	74-87-3	N.D.	2.0	N.D.	4.1	10
05298	3-Chloropropene	107-05-1	N.D.	2.0	N.D.	6.3	10
05298	Cumene	98-82-8	N.D.	2.0	N.D.	9.8	10
05298	Cyclohexane	110-82-7	N.D.	2.0	N.D.	6.9	10
05298	Dibromochloromethane	124-48-1	N.D.	2.0	N.D.	17	10
05298	1,2-Dibromoethane	106-93-4	N.D.	2.0	N.D.	15	10
05298	1,2-Dichlorobenzene	95-50-1	N.D.	2.0	N.D.	12	10
05298	1,3-Dichlorobenzene	541-73-1	N.D.	2.0	N.D.	12	10
05298	1,4-Dichlorobenzene	106-46-7	N.D.	2.0	N.D.	12	10
05298	Dichlorodifluoromethane	75-71-8	N.D.	5.0	N.D.	25	10
05298	1,1-Dichloroethane	75-34-3	11	2.0	44	8.1	10
05298	1,2-Dichloroethane	107-06-2	N.D.	2.0	N.D.	8.1	10
05298	1,1-Dichloroethene	75-35-4	17	2.0	67	7.9	10
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	2.0	N.D.	7.9	10
05298	trans-1,2-Dichloroethene	156-60-5	2.2 J	2.0	8.7 J	7.9	10
05298	1,2-Dichloropropane	78-87-5	N.D.	2.0	N.D.	9.2	10
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	N.D.	9.1	10
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	N.D.	9.1	10
05298	1,4-Dioxane	123-91-1	N.D.	5.0	N.D.	18	10
05298	Ethanol	64-17-5	9.6 J	5.0	18 J	9.4	10
05298	Ethylbenzene	100-41-4	N.D.	2.0	N.D.	8.7	10
05298	4-Ethyltoluene	622-96-8	N.D.	2.0	N.D.	9.8	10
05298	Freon 113	76-13-1	N.D.	5.0	N.D.	38	10
05298	Freon 114	76-14-2	N.D.	2.0	N.D.	14	10
05298	Heptane	142-82-5	N.D.	2.0	N.D.	8.2	10
05298	Hexachlorobutadiene	87-68-3	N.D.	4.0	N.D.	43	10
05298	Hexane	110-54-3	N.D.	2.0	N.D.	7.0	10
05298	2-Hexanone	591-78-6	N.D.	5.0	N.D.	20	10
05298	Isooctane	540-84-1	N.D.	2.0	N.D.	9.3	10
05298	Isopropanol	67-63-0	N.D.	5.0	N.D.	12	10
05298	Methyl t-Butyl Ether	1634-04-4	N.D.	2.0	N.D.	7.2	10
05298	4-Methyl-2-pentanone	108-10-1	N.D.	5.0	N.D.	20	10
05298	Methylene Chloride	75-09-2	N.D.	2.0	N.D.	6.9	10
05298	n-Propylbenzene	103-65-1	N.D.	2.0	N.D.	9.8	10
05298	Styrene	100-42-5	N.D.	2.0	N.D.	8.5	10
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D. 6.7 J	2.0	N.D.	14	10
05298	Tetrachloroethene	127-18-4		2.0	46 J	14	10
05298	Tetrahydrofuran	109-99-9	N.D.	2.0	N.D.	5.9	10 10
05298	Toluene	108-88-3	N.D.	2.0	N.D.	7.5	ΤU



Analysis Report

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REVISED

Sample Description: SS-3 Air

Joslyn Clark 0284652

LL Sample # AQ 7781503 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:12 by GK

through 02/19/2015 11:54 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1162-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.0	N.D.	37	10
05298	1,1,1-Trichloroethane	71-55-6	23	2.0	130	11	10
05298	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	N.D.	11	10
05298	Trichloroethene	79-01-6	580	2.0	3,100	11	10
05298	Trichlorofluoromethane	75-69-4	N.D.	2.0	N.D.	11	10
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.	2.0	N.D.	9.8	10
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.	2.0	N.D.	9.8	10
05298	Vinyl Chloride	75-01-4	N.D.	2.0	N.D.	5.1	10
05298	m/p-Xylene	179601-23-1	N.D.	2.0	N.D.	8.7	10
05298	o-Xylene	95-47-6	3.2 J	2.0	14 J	8.7	10

ERM

Reporting limits were raised due to interference from the sample matrix.

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT Analysis Name		Method	Trial#	Batch#	Analysis	Analyst	Dilution	
No.					Date and Time		Factor	
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AA	03/03/2015 22:51	Michael A Ziegler	10	



Analysis Report

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REVISED

Sample Description: SS-4 Air

Joslyn Clark 0284652

LL Sample # AQ 7781504 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:13 by GK

through 02/19/2015 11:43 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1167-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	Acetone	67-64-1	20	5.0	48	12	10
05298	Benzene	71-43-2	N.D.	2.0	N.D.	6.4	10
05298	Benzyl Chloride	100-44-7	N.D.	5.0	N.D.	26	10
05298	Bromodichloromethane	75-27-4	N.D.	2.0	N.D.	13	10
05298	Bromoform	75-25-2	N.D.	2.0	N.D.	21	10
05298	Bromomethane	74-83-9	N.D.	2.0	N.D.	7.8	10
05298	1,3-Butadiene	106-99-0	N.D.	4.0	N.D.	8.8	10
05298	2-Butanone	78-93-3	N.D.	5.0	N.D.	15	10
05298	Carbon Disulfide	75-15-0	N.D.	5.0	N.D.	16	10
05298	Carbon Tetrachloride	56-23-5	N.D.	2.0	N.D.	13	10
05298	Chlorobenzene	108-90-7	N.D.	2.0	N.D.	9.2	10
05298	Chloroethane	75-00-3	N.D.	2.0	N.D.	5.3	10
05298	Chloroform	67-66-3	N.D.	2.0	N.D.	9.8	10
05298	Chloromethane	74-87-3	N.D.	2.0	N.D.	4.1	10
05298	3-Chloropropene	107-05-1	N.D.	2.0	N.D.	6.3	10
05298	Cumene	98-82-8	N.D.	2.0	N.D.	9.8	10
05298	Cyclohexane	110-82-7	N.D.	2.0	N.D.	6.9	10
05298	Dibromochloromethane	124-48-1	N.D.	2.0	N.D.	17	10
05298	1,2-Dibromoethane	106-93-4	N.D.	2.0	N.D.	15	10
05298	1,2-Dichlorobenzene	95-50-1	N.D.	2.0	N.D.	12	10
05298	1,3-Dichlorobenzene	541-73-1	N.D.	2.0	N.D.	12	10
05298	1,4-Dichlorobenzene	106-46-7	N.D.	2.0	N.D.	12	10
05298	Dichlorodifluoromethane	75-71-8	N.D.	5.0	N.D.	25	10
05298	1,1-Dichloroethane	75-34-3	N.D.	2.0	N.D.	8.1	10
05298	1,2-Dichloroethane	107-06-2	N.D.	2.0	N.D.	8.1	10
05298	1,1-Dichloroethene	75-35-4	N.D.	2.0	N.D.	7.9	10
05298	cis-1,2-Dichloroethene	156-59-2	N.D.	2.0	N.D.	7.9	10
05298	trans-1,2-Dichloroethene	156-60-5	N.D.	2.0	N.D.	7.9	10
05298	1,2-Dichloropropane	78-87-5	N.D.	2.0	N.D.	9.2	10
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.	2.0	N.D.	9.1	10
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.	2.0	N.D.	9.1	10
05298	1,4-Dioxane	123-91-1	N.D.	5.0	N.D.	18	10
05298	Ethanol	64-17-5	10	5.0	19	9.4	10
05298	Ethylbenzene	100-41-4	N.D.	2.0	N.D.	8.7	10
05298	4-Ethyltoluene	622-96-8	N.D.	2.0	N.D.	9.8	10
05298	Freon 113	76-13-1	N.D.	5.0	N.D.	38	10
05298	Freon 114	76-14-2	N.D.	2.0	N.D.	14 8.2	10
05298	Heptane	142-82-5	N.D.	2.0	N.D.		10
05298 05298	Hexachlorobutadiene Hexane	87-68-3 110-54-3	N.D. N.D.	4.0	N.D. N.D.	43 7.0	10 10
05298		591-78-6	N.D. N.D.	5.0	N.D.	7.0	10
05298	2-Hexanone Isooctane	591-78-6	N.D. N.D.	2.0	N.D.	9.3	10
05298	Isopropanol	67-63-0	N.D.	5.0	N.D.	12	10
05298	Methyl t-Butyl Ether	1634-04-4	N.D.	2.0	N.D.	7.2	10
05298	4-Methyl-2-pentanone	108-10-1	N.D.	5.0	N.D.	20	10
05298	Methylene Chloride	75-09-2	N.D.	2.0	N.D.	6.9	10
05298	n-Propylbenzene	103-65-1	N.D.	2.0	N.D.	9.8	10
05298	Styrene	100-42-5	N.D.	2.0	N.D.	8.5	10
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	2.0	N.D.	14	10
05298	Tetrachloroethene	127-18-4	3.6 J	2.0	24 J	14	10
05298	Tetrahydrofuran	109-99-9	N.D.	2.0	N.D.	5.9	10
05298	Toluene	108-88-3	N.D.	2.0	N.D.	7.5	10
		-					



Analysis Report

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REVISED

Sample Description: SS-4 Air

Joslyn Clark 0284652

LL Sample # AQ 7781504 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:13 by GK

through 02/19/2015 11:43 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1167-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Vola	tiles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	5.0	N.D.	37	10
05298	1,1,1-Trichloroethane	71-55-6	N.D.	2.0	N.D.	11	10
05298	1,1,2-Trichloroethane	79-00-5	N.D.	2.0	N.D.	11	10
05298	Trichloroethene	79-01-6	110	2.0	580	11	10
05298	Trichlorofluoromethane	75-69-4	N.D.	2.0	N.D.	11	10
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.	2.0	N.D.	9.8	10
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.	2.0	N.D.	9.8	10
05298	Vinyl Chloride	75-01-4	N.D.	2.0	N.D.	5.1	10
05298	m/p-Xylene	179601-23-1	N.D.	2.0	N.D.	8.7	10
05298	o-Xylene	95-47-6	N.D.	2.0	N.D.	8.7	10

ERM

Reporting limits were raised due to interference from the sample matrix.

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT Analysis Name		Method	Trial#	Batch#	Analysis	Analyst	Dilution	
No.					Date and Time		Factor	
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AA	03/04/2015 10:58	Michael A Ziegler	10	



Analysis Report

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REVISED

Sample Description: SS-1 Air

Joslyn Clark 0284652

LL Sample # AQ 7781505 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:07 by GK

through 02/19/2015 11:47 15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1208-

CAT No.	Analysis Name	CAS Number	Final 1	Result	MDL	Final	Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)		ppb(v)	ug/m3		ug/m3	
05298	Acetone	67-64-1	13	J	10	31	J	24	20
05298	Benzene	71-43-2	N.D.		4.0	N.D.		13	20
05298	Benzyl Chloride	100-44-7	N.D.		10	N.D.		52	20
05298	Bromodichloromethane	75-27-4	N.D.		4.0	N.D.		27	20
05298	Bromoform	75-25-2	N.D.		4.0	N.D.		41	20
05298	Bromomethane	74-83-9	N.D.		4.0	N.D.		16	20
05298	1,3-Butadiene	106-99-0	N.D.		8.0	N.D.		18	20
05298	2-Butanone	78-93-3	N.D.		10	N.D.		29	20
05298	Carbon Disulfide	75-15-0	N.D.		10	N.D.		31	20
05298	Carbon Tetrachloride	56-23-5	N.D.		4.0	N.D.		25	20
05298	Chlorobenzene	108-90-7	N.D.		4.0	N.D.		18	20
05298	Chloroethane	75-00-3	N.D.		4.0	N.D.		11	20
05298	Chloroform	67-66-3	N.D.		4.0	N.D.		20	20
05298	Chloromethane	74-87-3	N.D.		4.0	N.D.		8.3	20
05298	3-Chloropropene	107-05-1	N.D.		4.0	N.D.		13	20
05298	Cumene	98-82-8	N.D.		4.0	N.D.		20	20
05298	Cyclohexane	110-82-7	N.D.		4.0	N.D.		14	20
05298	Dibromochloromethane	124-48-1	N.D.		4.0	N.D.		34	20
05298	1,2-Dibromoethane	106-93-4	N.D.		4.0	N.D.		31	20
05298	1,2-Dichlorobenzene	95-50-1	N.D.		4.0	N.D.		24	20
05298	1,3-Dichlorobenzene	541-73-1	N.D.		4.0	N.D.		24	20
05298	1,4-Dichlorobenzene	106-46-7	N.D.		4.0	N.D.		24	20
05298	Dichlorodifluoromethane	75-71-8	N.D.		10	N.D.		49	20
05298	1,1-Dichloroethane	75-34-3	N.D.		4.0	N.D.		16	20
05298	1,2-Dichloroethane	107-06-2	N.D.		4.0	N.D.		16	20
05298	1,1-Dichloroethene	75-35-4	6.0	J	4.0	24	J	16	20
05298	cis-1,2-Dichloroethene	156-59-2	N.D.		4.0	N.D.		16	20
05298	trans-1,2-Dichloroethene	156-60-5	N.D.		4.0	N.D.		16	20
05298	1,2-Dichloropropane	78-87-5	N.D.		4.0	N.D.		18	20
05298	cis-1,3-Dichloropropene	10061-01-5	N.D.		4.0	N.D.		18	20
05298	trans-1,3-Dichloropropene	10061-02-6	N.D.		4.0	N.D.		18	20
05298	1,4-Dioxane	123-91-1	N.D.	_	10	N.D.	_	36	20
05298	Ethanol	64-17-5	16 N. D.	J	10 4.0	30	J	19 17	20
05298	Ethylbenzene	100-41-4	N.D.			N.D.			20
05298 05298	4-Ethyltoluene Freon 113	622-96-8	N.D. N.D.		4.0	N.D.		20 77	20 20
05298	Freon 113 Freon 114	76-13-1 76-14-2	N.D.		4.0	N.D. N.D.		28	20
05298	Heptane	142-82-5	N.D.		4.0	N.D.		16	20
05298	Hexachlorobutadiene	87-68-3	N.D.		8.0	N.D.		85	20
05298	Hexane	110-54-3	N.D.		4.0	N.D.		14	20
05298	2-Hexanone	591-78-6	N.D.		10	N.D.		41	20
05298	Isooctane	540-84-1	N.D.		4.0	N.D.		19	20
05298	Isopropanol	67-63-0	N.D.		10	N.D.		25	20
05298	Methyl t-Butyl Ether	1634-04-4	N.D.		4.0	N.D.		14	20
05298	4-Methyl-2-pentanone	108-10-1	N.D.		10	N.D.		41	20
05298	Methylene Chloride	75-09-2	N.D.		4.0	N.D.		14	20
05298	n-Propylbenzene	103-65-1	N.D.		4.0	N.D.		20	20
05298	Styrene	100-42-5	N.D.		4.0	N.D.		17	20
05298	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		4.0	N.D.		27	20
05298	Tetrachloroethene	127-18-4	4.1	J	4.0	28	J	27	20
05298	Tetrahydrofuran	109-99-9	N.D.		4.0	N.D.		12	20
05298	Toluene	108-88-3	N.D.		4.0	N.D.		15	20



Analysis Report

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Sample Description: SS-1 Air

Joslyn Clark 0284652

LL Sample # AQ 7781505 LL Group # 1540449 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/19/2015 11:07 by GK

through 02/19/2015 11:47 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 04/16/2015 11:28 Charlotte NC 28277

1208-

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volat	iles in Air EPA TO-15		ppb(v)	ppb(v)	ug/m3	ug/m3	
05298	1,2,4-Trichlorobenzene	120-82-1	N.D.	10	N.D.	74	20
05298	1,1,1-Trichloroethane	71-55-6	N.D.	4.0	N.D.	22	20
05298	1,1,2-Trichloroethane	79-00-5	N.D.	4.0	N.D.	22	20
05298	Trichloroethene	79-01-6	390	4.0	2,100	21	20
05298	Trichlorofluoromethane	75-69-4	N.D.	4.0	N.D.	22	20
05298	1,2,4-Trimethylbenzene	95-63-6	N.D.	4.0	N.D.	20	20
05298	1,3,5-Trimethylbenzene	108-67-8	N.D.	4.0	N.D.	20	20
05298	Vinyl Chloride	75-01-4	N.D.	4.0	N.D.	10	20
05298	m/p-Xylene	179601-23-1	N.D.	4.0	N.D.	17	20
05298	o-Xylene	95-47-6	N.D.	4.0	N.D.	17	20

ERM

Reporting limits were raised due to interference from the sample matrix.

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT Analysis Name		Method	Trial#	al# Batch# Analysis		Analyst	Dilution
No.					Date and Time		Factor
05298	TO 15 VOA Ext. List	EPA TO-15	1	D1506230AB	03/04/2015 19:28	Jeffrey B Smith	20



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Quality Control Summary

Client Name: ERM Group Number: 1540449

Reported: 04/16/2015 11:28

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		RPD
<u>Analysis Name</u>	<u>Result</u>	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	<u>Max</u>
Batch number: D1506230AA	Sample nur	mber(s): 77	81500-7781	.504				
Acetone	N.D.	0.50	ppb(v)	89	90	61-134	0	25
Benzene	N.D.	0.20	ppb(v)	101	96	70-130	5	25
Benzyl Chloride	N.D.	0.50	(v) dag	94	92	50-160	2	25
Bromodichloromethane	N.D.	0.20	ppb(v)	97	94	62-129	3	25
Bromoform	N.D.	0.20	ppb (v)	80	80	64-141	0	25
Bromomethane	N.D.	0.20	ppb (v)	110	109	70-130	1	25
1,3-Butadiene	N.D.	0.40	ppb (v)	91	90	57-138	1	25
2-Butanone	N.D.	0.50	ppb (v)	107	106	60-135	1	25
Carbon Disulfide	N.D.	0.50	ppb (v)	116	116	55-121	0	25
Carbon Tetrachloride	N.D.	0.20	ppb (v)	96	91	70-130	5	25
Chlorobenzene	N.D.	0.20	ppb (v)	81	81	70-130	1	25
Chloroethane	N.D.	0.20	ppb (v)	110	105	63-119	4	25
Chloroform	N.D.	0.20	ppb (v)	98	93	70-130	5	25
Chloromethane	N.D.	0.20	ppb (v)	84	83	54-118	0	25
3-Chloropropene	N.D.	0.20	ppb (v)					
Cumene	N.D.	0.20	ppb (v)					
Cyclohexane	N.D.	0.20	ppb (v)	90	87	63-123	3	25
Dibromochloromethane	N.D.	0.20	ppb (v)	83	82	65-127	0	25
1,2-Dibromoethane	N.D.	0.20	ppb (v)	87	87	65-126	0	25
1,2-Dichlorobenzene	N.D.	0.20	ppb(v)	79	78	62-132	1	25
1,3-Dichlorobenzene	N.D.	0.20	ppb(v)	77	76	63-125	1	25
1,4-Dichlorobenzene	N.D.	0.20	ppb(v)	78	77	63-127	1	25
Dichlorodifluoromethane	N.D.	0.50	ppb(v)	108	105	61-149	2	25
1,1-Dichloroethane	N.D.	0.20	ppb(v)	101	96	67-124	6	25
1,2-Dichloroethane	N.D.	0.20	ppb(v)	93	90	70-130	4	25
1,1-Dichloroethene	N.D.	0.20	ppb(v)	103	101	61-128	2	25
cis-1,2-Dichloroethene	N.D.	0.20	ppb(v)	90	85	65-121	6	25
trans-1,2-Dichloroethene	N.D.	0.20	ppb(v)	101	98	66-121	4	25
1,2-Dichloropropane	N.D.	0.20	ppb(v)	95	93	70-130	3	25
cis-1,3-Dichloropropene	N.D.	0.20	ppb(v)	111	109	64-136	1	25
trans-1,3-Dichloropropene	N.D.	0.20	ppb(v)	93	94	61-126	0	25
1,4-Dioxane	N.D.	0.50	ppb(v)	97	95	43-149	2	25
Ethanol	N.D.	0.50	ppb(v)	81	80	10-175	1	25
Ethylbenzene	N.D.	0.20	ppb(v)	84	84	70-130	1	25
4-Ethyltoluene	N.D.	0.20	ppb(v)	81	79	59-126	1	25
Freon 113	N.D.	0.50	ppb(v)	101	97	63-114	4	25
Freon 114	N.D.	0.20	ppb(v)	100	100	63-123	0	25
Heptane	N.D.	0.20	ppb (v)	82	78	56-123	4	25
Hexachlorobutadiene	N.D.	0.40	ppb(v)	73	71	43-120	2	25
Hexane	N.D.	0.20	ppb (v)	91	87	63-117	4	25
2-Hexanone	N.D.	0.50	ppb(v)	80	77	47-150	4	25
Isooctane	N.D.	0.20	ppb(v)					
Isopropanol	N.D.	0.50	ppb(v)	80	78	55-152	2	25

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: ERM Group Number: 1540449

Reported: 04/16/2015 11:28

· · · · · · · · · · · · · · · · · · ·	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		RPD
Analysis Name	Result	MDL	Units	%REC	%REC	Limits	RPD	Max
Methyl t-Butyl Ether	N.D.	0.20	ppb (v)	95	93	52-129	2	25
4-Methyl-2-pentanone	N.D.	0.50	ppb (v)	78	74	53-140	5	25
Methylene Chloride	N.D.	0.20	(v) dqq	122	118	70-130	4	25
<u> </u>	N.D.	0.20		122	110	70-130	4	23
n-Propylbenzene			ppb (v)	0.1	0.1	64 120	1	٥٢
Styrene	N.D.	0.20	ppb (v)	81	81	64-130	1	25
1,1,2,2-Tetrachloroethane	N.D.	0.20	ppb (v)	87	85	58-133	2	25
Tetrachloroethene	N.D.	0.20	ppb(v)	75	74	70-130	1	25
Tetrahydrofuran	N.D.	0.20	ppb(v)	81	80	53-134	1	25
Toluene	N.D.	0.20	ppb (v)	86	86	70-130	1	25
1,2,4-Trichlorobenzene	N.D.	0.50	ppb (v)	64	61	37-119	5	25
1,1,1-Trichloroethane	N.D.	0.20	ppb (v)	93	88	70-130	6	25
1,1,2-Trichloroethane	N.D.	0.20	ppb(v)	89	90	59-131	1	25
Trichloroethene	N.D.	0.20	(v) dqq	89	86	70-130	3	25
Trichlorofluoromethane	N.D.	0.20	ppb (v)	101	99	70-130	2	25
1,2,4-Trimethylbenzene	N.D.	0.20	ppb (v)	78	77	60-128	1	25
1,3,5-Trimethylbenzene	N.D.	0.20	ppb (v)	82	81	61-132	1	25
Vinyl Chloride	N.D.	0.20	ppb(v)	108	108	70-130	1	25
m/p-Xylene	N.D.	0.20	ppb(v)	79	80	70-130	1	25
o-Xylene	N.D.	0.20		85	86	70-130	1	25
O-Aylelle	N.D.	0.20	ppb(v)	65	00	70-130	1	23
Datah mumban Disassan	01	l () 77	01505					
Batch number: D1506230AB		mber(s): 77		0.0	0.0	61 124	0	0.5
Acetone	N.D.	0.50	bbp (n)	89	90	61-134	0	25
Benzene	N.D.	0.20	ppb (v)	101	96	70-130	5	25
Benzyl Chloride	N.D.	0.50	ppb (v)	94	92	50-160	2	25
Bromodichloromethane	N.D.	0.20	ppb(v)	97	94	62-129	3	25
Bromoform	N.D.	0.20	ppb (v)	80	80	64-141	0	25
Bromomethane	N.D.	0.20	ppb (v)	110	109	70-130	1	25
1,3-Butadiene	N.D.	0.40	ppb(v)	91	90	57-138	1	25
2-Butanone	N.D.	0.50	ppb(v)	107	106	60-135	1	25
Carbon Disulfide	N.D.	0.50	ppb (v)	116	116	55-121	0	25
Carbon Tetrachloride	N.D.	0.20	(v) dqq	96	91	70-130	5	25
Chlorobenzene	N.D.	0.20	ppb (v)	81	81	70-130	1	25
Chloroethane	N.D.	0.20	ppb (v)	110	105	63-119	4	25
Chloroform	N.D.	0.20	ppb (v)	98	93	70-130	5	25
Chloromethane	N.D.	0.20	ppb (v)	84	83	54-118	0	25
3-Chloropropene	N.D.	0.20	(v) dqq	01	0.5	31 110	Ü	23
Cumene	N.D.	0.20	(v) dqq					
Cyclohexane		0.20		90	87	63-123	3	25
	N.D.		ppb(v)				0	
Dibromochloromethane	N.D.	0.20	ppb (v)	83	82	65-127		25
1,2-Dibromoethane	N.D.	0.20	bbp (n)	87	87	65-126	0	25
1,2-Dichlorobenzene	N.D.	0.20	ppb (v)	79	78	62-132	1	25
1,3-Dichlorobenzene	N.D.	0.20	ppb (v)	77	76	63-125	1	25
1,4-Dichlorobenzene	N.D.	0.20	ppb (v)	78	77	63-127	1	25
Dichlorodifluoromethane	N.D.	0.50	ppb (v)	108	105	61-149	2	25
1,1-Dichloroethane	N.D.	0.20	ppb(v)	101	96	67-124	6	25
1,2-Dichloroethane	N.D.	0.20	ppb(v)	93	90	70-130	4	25
1,1-Dichloroethene	N.D.	0.20	ppb(v)	103	101	61-128	2	25
cis-1,2-Dichloroethene	N.D.	0.20	ppb (v)	90	85	65-121	6	25
trans-1,2-Dichloroethene	N.D.	0.20	ppb (v)	101	98	66-121	4	25
1,2-Dichloropropane	N.D.	0.20	ppb(v)	95	93	70-130	3	25
cis-1,3-Dichloropropene	N.D.	0.20	(v) dqq	111	109	64-136	1	25
trans-1,3-Dichloropropene	N.D.	0.20	(v) dqq	93	94	61-126	0	25
1,4-Dioxane	N.D.	0.50	ppb (v)	97	95	43-149	2	25
Ethanol	N.D.	0.50		81	80	10-175	1	25
			ppb(v)	81 84			1	
Ethylbenzene	N.D.	0.20	ppb(v)		84	70-130		25
4-Ethyltoluene	N.D.	0.20	ppb (v)	81	79	59-126	1	25

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: ERM Group Number: 1540449

Reported: 04/16/2015 11:28

- , ,	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		RPD
<u>Analysis Name</u>	Result	MDL	Units	%REC	%REC	<u>Limits</u>	RPD	<u>Max</u>
Freon 113	N.D.	0.50	ppb(v)	101	97	63-114	4	25
Freon 114	N.D.	0.20	ppb(v)	100	100	63-123	0	25
Heptane	N.D.	0.20	ppb(v)	82	78	56-123	4	25
Hexachlorobutadiene	N.D.	0.40	ppb(v)	73	71	43-120	2	25
Hexane	N.D.	0.20	ppb(v)	91	87	63-117	4	25
2-Hexanone	N.D.	0.50	ppb(v)	80	77	47-150	4	25
Isooctane	N.D.	0.20	ppb(v)					
Isopropanol	N.D.	0.50	ppb(v)	80	78	55-152	2	25
Methyl t-Butyl Ether	N.D.	0.20	ppb(v)	95	93	52-129	2	25
4-Methyl-2-pentanone	N.D.	0.50	ppb (v)	78	74	53-140	5	25
Methylene Chloride	N.D.	0.20	ppb(v)	122	118	70-130	4	25
n-Propylbenzene	N.D.	0.20	ppb(v)					
Styrene	N.D.	0.20	ppb (v)	81	81	64-130	1	25
1,1,2,2-Tetrachloroethane	N.D.	0.20	ppb(v)	87	85	58-133	2	25
Tetrachloroethene	N.D.	0.20	ppb(v)	75	74	70-130	1	25
Tetrahydrofuran	N.D.	0.20	ppb (v)	81	80	53-134	1	25
Toluene	N.D.	0.20	ppb(v)	86	86	70-130	1	25
1,2,4-Trichlorobenzene	N.D.	0.50	ppb(v)	64	61	37-119	5	25
1,1,1-Trichloroethane	N.D.	0.20	ppb (v)	93	88	70-130	6	25
1,1,2-Trichloroethane	N.D.	0.20	ppb (v)	89	90	59-131	1	25
Trichloroethene	N.D.	0.20	ppb (v)	89	86	70-130	3	25
Trichlorofluoromethane	N.D.	0.20	ppb (v)	101	99	70-130	2	25
1,2,4-Trimethylbenzene	N.D.	0.20	ppb (v)	78	77	60-128	1	25
1,3,5-Trimethylbenzene	N.D.	0.20	ppb (v)	82	81	61-132	1	25
Vinyl Chloride	N.D.	0.20	ppb (v)	108	108	70-130	1	25
m/p-Xylene	N.D.	0.20	ppb (v)	79	80	70-130	1	25
o-Xylene	N.D.	0.20	ppb (v)	85	86	70-130	1	25

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Summa Canister Field Test Data/Chain of Custody

eurofins	Lancaster Labo Environmental	ratories Acct. #	: 12417	_ Group # <u>/ Š</u>	For Euro 10446	fins Lanca Sample structions on r	ster Lab # reverse side	oratories E 7 8 / 5 (correspond v	nvironme \(\text{O} \) \(-\text{C} \) with circled n	ental use of the sumbers.	only Bot	ttle Order (SCR)#	16	72	46	1	
1) Client		Client Informa	tion			(3) T	urnaro	und Tin	ne Requ	uested	(TAT) (c	ircle one)	(6)	A (nalys	ses	Regi	ueste
Client			Account #				Standa			sh (spe							İ	
Project Name/# TENT Cla Project Manager Millage 1	rk 03	484652				4) D	1	ckage R		d? 5		Required?		MTBE				
Project Manager	20 (1)	2	P.O. #				(Yes)	No		Yes	No						
Sampler	11e551e40	a EW: CO	Quote #			4			ature (F)			ure ("Hg)	1		below)			
G.Kar	>1/91		Quote #			Ambie	ent	Start 40	Stor 40)	Start	Stop	l	BTEX	range b			
Name of state where same	oles were collected	NC				Maxim									ct ran	.ec		اء
② Sample Ide	entification	Start Date/Time (24-hour clock)	Stop Date/Time (24-hour clock)	Canister Pressure in Field ("Hg) (Start)	Canister Pressure in Field ("Hg) (Stop)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow F	Rea ID	Can ID	Can Size (L)	Controller Flowrate (mL/min)	EPA TO - 15	EPA 18	EPA 25 (select	Helium as tracer	02/C02	Library Search
55-6		2/19/15/11	2/9/15 1156	-27.5	Ó	40	40	337	*	970		27.9	せん	Ш		肀		╬
55-5		2/19/15/11/5	2/19/15/155	-28	-5	40	40	3169		975	-	26.8	X		\Box	寸	\top	\top
55-2		2/19/15/109	2/19/15 1154	-30	-5.5	40	40	339		1049	1 4	26.8	X			\neg	\top	1
55-1 55-	3	2/19/15 11/2	Heri zilpila	-38	-5	40	40	329	/	1162		26.5	×		\Box	T	十	
		2/19/15/1/13	2/19/15/1/93	-30	-5	40	40	3010		1167		27,7	メ			丁		\top
55-	- (N19/15 1107	2/19/15/147	-37	-5	40	40	3034	-21	1208		26,8	X			T		\top
								342	153	1209	1	2815						
7 Instructions/	QC Requireme	ents & Comment	S					EPA 25	(check	one)		C1 - C4 C1 - C10			C2 - C4 -		0 0 (GR	₹О)
Canisters Shipped by:	Da	ate/Timę: Canisters F	Received by:	Date/	ime: Relir	nquished by:		<u></u>	Date/	Гime [.]	Received b	C2 - C4			T _r	Date/T	Γime:	<u> </u>
Ehren hy		1611 Dry	Kulls	1 1	15150	TD	A-sey 1	Kully		15 1700		FY				, a.c./ 1		(8)
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Relinquished by:	Da	ate/Time: Received b	y:	Date/T	ime: Relin	quished by:			Date/	ime:	Received b	in All I	/		2)ate/T 23	ime:	116

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Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mĹ	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

less than <

greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 ERM 15720 Brixham Hill Avenue Suite 120 Charlotte NC 28277

February 27, 2015

Project: Joslyn Clark 0284652

Submittal Date: 02/23/2015 Group Number: 1540452 PO Number: 0284652 State of Sample Origin: NC

Client Sample Description	Lancaster Labs (LL) #
AA-3 Air	7781533
AA-2 Air	7781534
AA-6 Air	7781535
OA-1 Air	7781536
AA-4 Air	7781537
AA-5 Air	7781538
AA-7 Air	7781539
AA-1 Air	7781540

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

ELECTRONIC ERM COPY TO

Attn: Michael Pressley

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

Mg Moeller Senior Specialist

(717) 556-7261



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: AA-3 Air

Submitted: 02/23/2015 11:16

Reported: 02/27/2015 14:10

Joslyn Clark / 0284652

LL Sample # AQ 7781533 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:41 by GK

15720 Brixham Hill Avenue

Suite 120

ERM

Charlotte NC 28277

-1032

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	N.D.	0.0200	N.D.	0.0639	1
07345	Carbon Tetrachloride	56-23-5	N.D.	0.0200	N.D.	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	N.D.	0.0200	N.D.	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	N.D.	0.0200	N.D.	0.0868	1
07345	Freon 113	76-13-1	N.D.	0.0200	N.D.	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	N.D.	0.0200	N.D.	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	N.D.	0.0200	N.D.	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	N.D.	0.0200	N.D.	0.0868	1
07345	o-Xylene	95-47-6	N.D.	0.0200	N.D.	0.0868	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	ne	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/26/2015	23:51	Michael A Ziegler	1



Analysis Report

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Sample Description: AA-2 Air

Joslyn Clark / 0284652

LL Sample # AQ 7781534 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:34 by GK

through 02/18/2015 16:53 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 02/27/2015 14:10 Charlotte NC 28277

-1176

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.400	0.0200	1.28	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0650	0.0200	0.409	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	0.0701	0.0200	0.421	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	0.0613	0.0200	0.368	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	0.0655	0.0200	0.394	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.143	0.0200	0.581	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.561	0.0200	2.44	0.0868	1
07345	Freon 113	76-13-1	0.0651	0.0200	0.499	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	0.116 J	0.100	0.403 J	0.347	1
07345	Tetrachloroethene	127-18-4	0.0537	0.0200	0.364	0.136	1
07345	Toluene	108-88-3	0.380	0.0200	1.43	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.472	0.0200	2.54	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	1.21	0.0400	5.26	0.174	2
07345	o-Xylene	95-47-6	0.829	0.0200	3.60	0.0868	1

ERM

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following

analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	00:38	Michael A Ziegler	1
07345	TO-15 by SIM	EPA TO-15 using	1	C1505730AA	02/27/2015	10:30	Michael A Ziegler	2



Analysis Report

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Sample Description: AA-6 Air

Submitted: 02/23/2015 11:16

Reported: 02/27/2015 14:10

Joslyn Clark / 0284652

LL Sample # AQ 7781535 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 09:00 by GK

15720 Brixham Hill Avenue

Suite 120

ERM

Charlotte NC 28277

--543

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.241	0.0200	0.770	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0610	0.0200	0.384	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	0.0276 J	0.0200	0.166 J	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	0.0245 J	0.0200	0.147 J	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	0.0283 J	0.0200	0.170 J	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0624	0.0200	0.252	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	0.0897	0.0200	0.356	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.214	0.0200	0.931	0.0868	1
07345	Freon 113	76-13-1	0.0624	0.0200	0.478	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	0.211	0.0200	0.795	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.138	0.0200	0.740	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.608	0.0200	2.64	0.0868	1
07345	o-Xylene	95-47-6	0.296	0.0200	1.28	0.0868	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	01:25	Michael A Ziegler	1



Analysis Report

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Sample Description: OA-1 Air

Joslyn Clark / 0284652

LL Sample # AQ 7781536 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 07:56 by GK

through 02/18/2015 16:22 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 02/27/2015 14:10 Charlotte NC 28277

--522

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.133	0.0200	0.425	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0599	0.0200	0.377	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	N.D.	0.0200	N.D.	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	N.D.	0.0200	N.D.	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.0249 J	0.0200	0.108 J	0.0868	1
07345	Freon 113	76-13-1	0.0612	0.0200	0.469	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	0.0667	0.0200	0.251	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	N.D.	0.0200	N.D.	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.0530 J	0.0200	0.230 J	0.0868	1
07345	o-Xylene	95-47-6	0.0289 J	0.0200	0.126 J	0.0868	1

ERM

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following

analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	02:13	Michael A Ziegler	1



Analysis Report

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Sample Description: AA-4 Air

Joslyn Clark / 0284652

LL Sample # AQ 7781537 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:49 by GK

15720 Brixham Hill Avenue

ERM

Submitted: 02/23/2015 11:16 Suite 120

Reported: 02/27/2015 14:10 Charlotte NC 28277

-1028

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.278	0.0200	0.890	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0582	0.0200	0.366	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	N.D.	0.0200	N.D.	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.113	0.0200	0.456	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.0691	0.0200	0.300	0.0868	1
07345	Freon 113	76-13-1	0.0595	0.0200	0.456	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	0.153	0.0200	0.576	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.262	0.0200	1.41	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.182	0.0200	0.791	0.0868	1
07345	o-Xylene	95-47-6	0.0994	0.0200	0.432	0.0868	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	03:00	Michael A Ziegler	1



Analysis Report

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Sample Description: AA-5 Air

Submitted: 02/23/2015 11:16

Reported: 02/27/2015 14:10

Joslyn Clark / 0284652

LL Sample # AQ 7781538 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:58 by GK

15720 Brixham Hill Avenue

Suite 120

ERM

Charlotte NC 28277

--847

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.312	0.0200	0.998	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0608	0.0200	0.382	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	0.0225 J	0.0200	0.135 J	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.109	0.0200	0.442	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.190	0.0200	0.827	0.0868	1
07345	Freon 113	76-13-1	0.0623	0.0200	0.477	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	0.0209 J	0.0200	0.141 J	0.136	1
07345	Toluene	108-88-3	0.225	0.0200	0.847	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.266	0.0200	1.43	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.533	0.0200	2.32	0.0868	1
07345	o-Xylene	95-47-6	0.269	0.0200	1.17	0.0868	1

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/-4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ne	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using	1	C1505730AA	02/27/2015	03:47	Michael A Ziegler	1



Analysis Report

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Sample Description: AA-7 Air

Joslyn Clark / 0284652

LL Sample # AQ 7781539 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:06 by GK

through 02/18/2015 16:29 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 02/27/2015 14:10 Charlotte NC 28277

--537

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb(v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.260	0.0200	0.831	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0624	0.0200	0.392	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	N.D.	0.0200	N.D.	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.0511	0.0200	0.207	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.0345 J	0.0200	0.150 J	0.0868	1
07345	Freon 113	76-13-1	0.0658	0.0200	0.504	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	0.134	0.0200	0.504	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.125	0.0200	0.672	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.0940 J	0.0200	0.408 J	0.0868	1
07345	o-Xylene	95-47-6	0.0439 J	0.0200	0.191 J	0.0868	1

ERM

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/-4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	04:35	Michael A Ziegler	1



Analysis Report

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Sample Description: AA-1 Air

Joslyn Clark / 0284652

LL Sample # AQ 7781540 LL Group # 1540452 Account # 12417

Project Name: Joslyn Clark 0284652

Collected: 02/18/2015 08:27 by GK

through 02/18/2015 16:41 15720 Brixham Hill Avenue

Submitted: 02/23/2015 11:16 Suite 120

Reported: 02/27/2015 14:10 Charlotte NC 28277

-1193

CAT No.	Analysis Name	CAS Number	As Received Final Result	MDL	As Received Final Result	MDL	DF
Volat	iles in Air EPA TO-15	using SIM	ppb(v)	ppb (v)	ug/m3	ug/m3	
07345	Benzene	71-43-2	0.339	0.0200	1.08	0.0639	1
07345	Carbon Tetrachloride	56-23-5	0.0622	0.0200	0.391	0.126	1
07345	Chloroethane	75-00-3	N.D.	0.0200	N.D.	0.0528	1
07345	Chloroform	67-66-3	N.D.	0.0200	N.D.	0.0977	1
07345	1,2-Dibromoethane	106-93-4	N.D.	0.0200	N.D.	0.154	1
07345	1,2-Dichlorobenzene	95-50-1	N.D.	0.0200	N.D.	0.120	1
07345	1,3-Dichlorobenzene	541-73-1	N.D.	0.0200	N.D.	0.120	1
07345	1,4-Dichlorobenzene	106-46-7	N.D.	0.0200	N.D.	0.120	1
07345	1,1-Dichloroethane	75-34-3	N.D.	0.0200	N.D.	0.0809	1
07345	1,2-Dichloroethane	107-06-2	0.136	0.0200	0.552	0.0809	1
07345	1,1-Dichloroethene	75-35-4	N.D.	0.0200	N.D.	0.0793	1
07345	cis-1,2-Dichloroethene	156-59-2	N.D.	0.0200	N.D.	0.0793	1
07345	trans-1,2-Dichloroethene	156-60-5	N.D.	0.0200	N.D.	0.0793	1
07345	1,2-Dichloropropane	78-87-5	N.D.	0.0200	N.D.	0.0924	1
07345	Ethylbenzene	100-41-4	0.0216 J	0.0200	0.0939 J	0.0868	1
07345	Freon 113	76-13-1	0.0644	0.0200	0.493	0.153	1
07345	Methyl t-Butyl Ether	1634-04-4	N.D.	0.0200	N.D.	0.0721	1
07345	Methylene Chloride	75-09-2	N.D.	0.100	N.D.	0.347	1
07345	Tetrachloroethene	127-18-4	N.D.	0.0200	N.D.	0.136	1
07345	Toluene	108-88-3	0.150	0.0200	0.567	0.0754	1
07345	1,1,1-Trichloroethane	71-55-6	N.D.	0.0200	N.D.	0.109	1
07345	1,1,2-Trichloroethane	79-00-5	N.D.	0.0200	N.D.	0.109	1
07345	Trichloroethene	79-01-6	0.236	0.0200	1.27	0.107	1
07345	Vinyl Chloride	75-01-4	N.D.	0.0200	N.D.	0.0511	1
07345	m/p-Xylene	179601-23-1	0.0539 J	0.0200	0.234 J	0.0868	1
07345	o-Xylene	95-47-6	0.0289 J	0.0200	0.125 J	0.0868	1

ERM

The LCS and/or LCSD recoveries are outside the stated QC window but within the marginal exceedance allowance of +/- 4 standard deviations as defined in the NELAC Standards. The following analytes are accepted based on this allowance:

1,2-dichlorobenzene

1,2-dichlorobenzene

MDL = Method Detection Limit

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Ti	me	Analyst	Dilution Factor
07345	TO-15 by SIM	EPA TO-15 using SIM	1	C1505730AA	02/27/2015	05:23	Michael A Ziegler	1



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Quality Control Summary

Client Name: ERM Group Number: 1540452

Reported: 02/27/15 at 02:10 PM

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

	Blank	Blank	Report	LCS	LCSD	LCS/LCSD		RPD
<u>Analysis Name</u>	<u>Result</u>	MDL	<u>Units</u>	%REC	%REC	<u>Limits</u>	RPD	<u>Max</u>
Batch number: C1505730AA	Sample numb	er(s): 778	31533-7781	540				
Benzene	N.D.	0.0200	ppb(v)	97	107	70-130	10	25
Carbon Tetrachloride	N.D.	0.0200	ppb(v)	89	94	70-130	5	25
Chloroethane	N.D.	0.0200	ppb (v)	92	100	70-130	8	25
Chloroform	N.D.	0.0200	ppb(v)	86	91	70-130	6	25
1,2-Dibromoethane	N.D.	0.0200	ppb(v)	103	126	70-130	20	25
1,2-Dichlorobenzene	N.D.	0.0200	ppb(v)	104	138*	70-130	28*	25
1,3-Dichlorobenzene	N.D.	0.0200	ppb(v)	96	124	70-130	25	25
1,4-Dichlorobenzene	N.D.	0.0200	ppb(v)	94	123	70-130	27*	25
1,1-Dichloroethane	N.D.	0.0200	ppb(v)	86	91	70-130	6	25
1,2-Dichloroethane	N.D.	0.0200	ppb(v)	103	115	70-130	11	25
1,1-Dichloroethene	N.D.	0.0200	ppb(v)	86	92	70-130	7	25
cis-1,2-Dichloroethene	N.D.	0.0200	ppb(v)	74	77	70-130	4	25
trans-1,2-Dichloroethene	N.D.	0.0200	ppb(v)	85	94	70-130	10	25
1,2-Dichloropropane	N.D.	0.0200	ppb(v)	96	102	70-130	6	25
Ethylbenzene	N.D.	0.0200	ppb(v)	81	93	70-130	13	25
Freon 113	N.D.	0.0200	ppb(v)	94	100	70-130	7	25
Methyl t-Butyl Ether	N.D.	0.0200	ppb(v)	82	83	70-130	1	25
Methylene Chloride	N.D.	0.100	ppb(v)	87	95	70-130	9	25
Tetrachloroethene	N.D.	0.0200	ppb(v)	89	103	70-130	15	25
Toluene	N.D.	0.0200	ppb (v)	90	102	70-130	13	25
1,1,1-Trichloroethane	N.D.	0.0200	ppb(v)	84	88	70-130	5	25
1,1,2-Trichloroethane	N.D.	0.0200	ppb(v)	93	111	70-130	17	25
Trichloroethene	N.D.	0.0200	ppb (v)	97	106	70-130	9	25
Vinyl Chloride	N.D.	0.0200	ppb(v)	88	95	70-130	8	25
m/p-Xylene	N.D.	0.0200	ppb(v)	93	108	70-130	15	25
o-Xylene	N.D.	0.0200	ppb (v)	80	89	70-130	11	25

^{*-} Outside of specification

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

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Relinquished by:



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	BMQL	Below Minimum Quantitation Level
N.D.	none detected	MPN	Most Probable Number
TNTC	Too Numerous To Count	CP Units	cobalt-chloroplatinate units
IU	International Units	NTU	nephelometric turbidity units
umhos/cm	micromhos/cm	ng	nanogram(s)
С	degrees Celsius	F	degrees Fahrenheit
meq	milliequivalents	lb.	pound(s)
g	gram(s)	kg	kilogram(s)
μg	microgram(s)	mg	milligram(s)
mĹ	milliliter(s)	Ĺ	liter(s)
m3	cubic meter(s)	μL	microliter(s)
		pg/L	picogram/liter

less than <

greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and the < Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, ISO17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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