

**SOIL GAS SURVEY**

**FOR**

**FULTON GAS WORKS  
3301 WILLIAMSBURG AVENUE  
RICHMOND, VIRGINIA 23223**

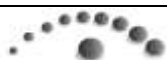
**PREPARED FOR:**

**CITY OF RICHMOND  
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P.O. BOX 27545  
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# SOIL GAS SURVEY

3301 Williamsburg Avenue  
Richmond, Virginia 23223

## Prepared For:

City of Richmond  
Department of Public Utilities  
P.O. Box 27545  
Richmond, Virginia 23261

## Prepared By:

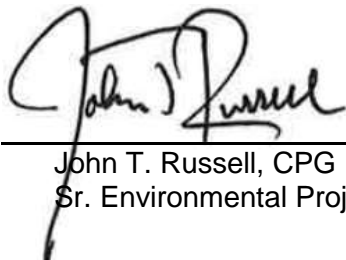
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## ***LIST OF ACRONYMS***

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ASTM	American Society of Materials and Testing
AWS	Air Water and Soil Laboratories
bgs	below ground surface
DEQ	Virginia Department of Environmental Quality
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HCl	hydrochloric acid
REC	recognized environmental condition
RSLs	Regional Screening Levels
PVC	polyvinyl chloride
SVOCs	semi-volatile organic compounds
TPH-DRO	total petroleum hydrocarbons – diesel range organics
USGS	United States Geological Survey
VOCs	volatile organic compounds
VRP	Voluntary Remediation Program
VP	vapor point

## EXECUTIVE SUMMARY

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Timmons Group previously completed an American Society of Testing and Materials (ASTM) Standard E 1903-11 Phase II Environmental Site Assessment (ESA) of property located at 3301 Williamsburg Avenue in the City of Richmond, Virginia (hereafter the "Subject Property", "Site", or "Subject Site"). Completion of the Phase II ESA followed the recommendations of a prior Phase I ESA which recognized the presence of recognized environmental conditions (RECs) on the Subject Property and accordingly recommended further assessment in association with a current proposal for potential renovation and reuse of the property.

According to information from the Phase I ESA, and although minimal evidence was observed as a result of the site reconnaissance, the recorded historic presence of hazardous materials and/or petroleum products on the northern and eastern adjoining properties was concluded to denote a contemporary source for subsurface vapors. Likewise, the history of Fulton in and of itself represents a potential source for the presence of subsurface vapors that under the influence of topographic and/or hydraulic gradients, would have the potential to migrate onto and/or across the Subject Property. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of hazardous materials on the adjoining properties and Fulton represents a REC.

Based on the above, Timmons Group recommended the completion of a Phase II ESA in accordance with ASTM Standard E 1903-11 (Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process) which included the completion of a soil gas survey to evaluate the necessity of proactively mitigating potential vapor risks through the design and implementation of engineering controls.

Soil and groundwater analytical data from the Phase II ESA (completed under separate cover and published January 14, 2016) showed a potential risk to human health and/or the environment, as evidenced by comparing samples with published state and federal regulatory screening levels. Collected soil samples produced measureable concentrations above the EPA Region 3 Screening Level for industrial soil and/or VDEQ Voluntary Remediation Program (VRP) Tier III Screening Concentrations for restricted soil. Groundwater samples likewise produced measureable concentrations above the DEQ VRP Tier III Groundwater Screening Concentrations (Construction Worker in a Trench).

### **Investigative Methods**

Within the boundaries of Fulton only, and excluding the adjoining properties, the soil gas survey involved installing/constructing nineteen (19) soil vapor points across the site using a Geoprobe® direct-push hydraulic sampler and collecting vapor samples for laboratory analysis. The vapor sampling was conducted in accordance with ASTM standards with analysis being completed by an accredited laboratory using approved Environmental Protection Agency (EPA) Methods. Based on the nature of suspected contaminants, the vapor samples were analyzed for VOCs using EPA Method TO-15 (Determination of Volatile Organic Compounds (VOCs) In Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)).

### **Analytical Results**

The collected vapor samples produced measureable concentrations above VRP Tier III Residential Subslab Soil Gas Screening Levels for multiple vapor points as detailed below.

- VP#10: Benzene;
- VP#12: Benzene;
- VP#13: 1,2,4-Trimethylbenzene and Total Xylenes;
- VP#14: Benzene, Ethylbenzene, 1,2,4-Trimethylbenzene, m,p-Xylenes, and total Xylenes;

- VP#15: Benzene, Naphthalene, and 1,2,4-Trimethylbenzene;
- VP#16: Benzene, Ethylbenzene, Naphthalene, 1,2,4-Trimethylbenzene, o-Xylenes, m,p-Xylenes, and total Xylenes; and
- VP#19: Benzene.

### **Conclusions**

Based on the proposed redevelopment of the Site, the measured vapor concentrations of VOCs and the associated regulatory exceedances, as reflected by the soil gas sampling results, serve as a basis for recommending remediation. Timmons Group recommends source removal of contaminated soils in areas of notable concentrations, with a cover of at least two feet of clean fill. A recommendation for vapor barrier may also be needed to passively and/or actively mitigate any potential for soil gas infiltration, based on proposed site usage.

## 1.0 INTRODUCTION

---

Timmons Group previously completed a Phase I ESA of the Subject Property on August 27, 2015, and a Phase II ESA focusing on adsorbed and dissolved phase concentrations on January 14, 2016, to satisfy due diligence requirements in conjunction with the proposed repurposing of the property. The results of the Phase I ESA identified the following RECs:

- Hazardous Substances and/or Petroleum Products  
Fulton Gas Works was a manufactured gas plant that burned coal and oil to derive volatiles (natural gas) for use as a residential and industrial fuel source. The plant produced coal gas from approximately 1856 through the 1950's. The passage below in conjunction with site observations presents evidence supporting the high probability of hazardous substance(s) and/or petroleum product(s) concentrations being present onsite.

As detailed by the U.S. EPA regarding manufactured gas plant sites:

*Due to the immense amounts of coal which could be handled per year, manufactured gas plant sites often have very large wastewater lagoons and coal tar pits. Common waste products encountered at Superfund assessment and remediation projects include high concentrations of polynuclear aromatic hydrocarbons (PAHs), sulfur compounds, complex cyanide compounds and lower concentrations of volatile and phenolic compounds. These wastes are concentrated in a dense, aromatic coal tar and associated waste waters. This coal tar waste is typically found in large on-site pits, many of which are over 20 feet deep. The metals concentration accumulated in the ash collection system is dependent on the content of the original fuel. The most common metals include aluminum, iron, lead, nickel, and chromium. The ash may be encountered on site mixed with the coal tar or as a separate waste pile. Other inorganic compounds are not typically encountered at significant levels.*

*Groundwater may be contaminated as a result of leaching or percolation of surface and subsurface contaminants, surface impoundments and leaking process lines and tanks.*

*Additionally, contaminated buildings and the associated demolition debris may be encountered at abandoned or inactive sites. Associated heat transmission equipment may contain significant amounts of asbestos. Decontamination, asbestos remediation, and wipe testing of this material may be required prior to off-site landfill disposal or scrapping of process equipment.*

Based on the above and considering the various evidence alluding to the presence of hazardous materials and/or petroleum concentrations onsite, the historical operations at Fulton Gas Works represent a REC to the Subject Property.

- Storage Tanks  
Based on the review of historical aerial photographs and Sanborn maps, Fulton Gas Works maintained underground tar cisterns and large, vertical, cylindrical crude oil aboveground storage tanks (ASTs) from as early as 1905 until its closing in the 1950s. The ASTs have since been removed but site observations indicate that the cisterns may still be present; (eg) a partially exposed underground storage tank (UST) is located to the east of the main collection of buildings that is near full of a petroleum-water mixture. Based on the above, the collection of tanks and former bulk storage of petroleum products on the Subject Property represents a REC.
- Vapor Migration  
The previous/historical storage of petroleum and coal tar on the Subject Property denotes a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic

gradients, has the potential to migrate across the Subject Property and onto adjoining properties. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of petroleum and coal tar represents a REC.

- Polychlorinated Biphenyls (PCBs)

A cluster of three (3) electrical transformers are mounted on a single utility pole in the central area of the Subject Property. The transformers are not labeled with non-PCB placards and are in fair to poor condition but have been disconnected from usage. Based on their suspected age, condition, and likely construction details, the transformers represent a potential REC to the Subject Property.

Based on the age and nature of the mechanical equipment utilized over the course of facility operation as a coal gas manufacturing plant, the usage of PCB fluids is suspected which represents a potential REC to the Subject Property.

- Stained Soil/Pavement and/or Stressed Vegetation

Stained soil and stressed vegetation are present in the southeastern area of the Subject Property which is downgradient from the main buildings of Fulton Gas Works. The staining and stressed vegetation in combination with the detection of odors, as described below, represents a REC.

- Odors

The area of stained soils and stressed vegetation located in the southeastern area of the property is noted to generate a strong petroleum-like odor. The odor, in combination with the previously described staining and stressed vegetation, represents a REC.

- Railroads

Railroad tracks do not presently transect the Subject Property. However, based on review of historical aerial photographs and Sanborn maps, a feeder line to a series of railroad spurs historically entered the Subject Property from the main line along the northern boundary and circled around to the southern area of the Site. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the former presence of railroad tracks across the Subject Property represents a REC.

As a result of site reconnaissance and reviewing resource materials, the following environmental concerns were observed on the adjoining properties:

- Hazardous Substances and/or Petroleum Products

No overt evidence of hazardous substances and/or petroleum products was observed on the adjoining properties during the site inspection; however, as indicated by reviewed resource data, the northern and eastern adjoining properties were previously improved for industrial uses from the late 19th Century through the 1970's which included the above ground bulk storage of petroleum in excess of 2-million gallons. Overall, the historical industrial nature of the northern and eastern adjoining properties represents a potential HREC which translates to a contemporary REC.

Currently, Newton's Bus Service which is located north-adjacent and at a higher elevation maintains two (2) ASTs with individual volumes estimated in excess of 5,000 gallons that are suspected to be used for petroleum storage. A catastrophic release from either of these tanks would have the potential to impact the northern extent of the Subject Property; accordingly, these tanks represent a potential REC.

- Storage Tanks

As previously stated, the two (2) bulk petroleum ASTs located on the northern adjoining Newton's Bus Service facility represent a potential REC.



- Vapor Migration  
Although minimal evidence was observed as a result of the site reconnaissance, the recorded historic presence of hazardous materials and/or petroleum products on the northern and eastern adjoining properties denote a contemporary source for subsurface vapors that, under the influence of topographic and/or hydraulic gradients, have the potential to migrate onto and across the Subject Property. Accordingly, the contemporary potential for vapor migration resulting from the historic presence of hazardous materials on the adjoining properties represents a REC.
- Railroads  
An active railroad trestle comprised of two (2) sets of tracks currently extends northwest-southeast along the western boundary of the Subject Property. Likewise, a single-track line extends along the northern boundary of the Subject Property that crosses Williamsburg Avenue and a former elevated railroad spur extended along the eastern property boundary. Railroad tracks are historically suspect sources of environmental impact based on the previous burning of coal as a fuel source and the associated particulate fallout which commonly contains elevated concentrations of heavy metals. Accordingly, the potential exists for heavy metal concentrations to be prevalent in the surficial soils onsite. As a result, the potential generation of fugitive dust during the redevelopment of the Subject Property represents a REC.

### **1.1 Phase II ESA Summary**

Based on the previous, Timmons Group recommended the completion of a Phase II ESA to evaluate the subsurface environmental conditions beneath the Subject Property relative to the potential effects imposed by the RECs associated with the Site and surrounding properties. Timmons Group additionally recommended the completion of a soil gas survey to evaluate the necessity of mitigating potential vapor risks to the currently proposed usage through the design and implementation of engineering controls.

A Phase II ESA containing information on soil and groundwater characteristics at the Subject Property was published on January 14, 2016 with the results of that investigation showing exceedances of regulatory screening levels. Collected soil samples produced measureable concentrations above the EPA Region 3 Screening Level for industrial soil and/or DEQ Voluntary Remediation Program (VRP) Tier III Screening Concentrations for restricted soil (industrial). Of the analytes measured, naphthalene was measured at the most notable concentration: approximately 35 times (x) the VRP Tier II concentration and 121x the EPA Region 3 RSL for industrial sites. The collected groundwater samples produced measureable concentrations above the DEQ VRP Tier III Groundwater Screening Concentrations (for Construction Workers in a Trench).

### **1.2 Purpose and Scope of Services**

As a result of the Phase II ESA, the completion of a soil gas survey was proposed with the intent of complementing the soil and groundwater data to further identify whether the former usage of the Subject Property had resulted in associated subsurface impact that could inhibit a current proposal for property redevelopment. Secondly, the purpose of the soil gas survey included assessing the potential subsurface impact of the Subject Property from offsite sources.

Soil gas samples were collected from nineteen (19) randomly placed vapor points across the Subject Property that were installed using a Geoprobe® direct-push hydraulic sampler. Upon collection, the samples were submitted to Air Water and Soil Laboratories (AWS) in Richmond, Virginia for analysis of VOCs using EPA Method TO-15.

### **1.3 Limitations**

This report was prepared solely for the use of the City of Richmond in accordance with the agreed upon scope of services. Any conclusions provided in this report are based only on the information contained within this document. Additional information with respect to this site or nearby sites, which was not available at the time this assessment was prepared, could modify the conclusions stated herein. This report has been

prepared in general accordance with ASTM standards; no other warranty, expressed or implied, is made as to the professional advice provided under the terms of the agreement between the City of Richmond and Timmons Group.

This soil gas survey was completed in general accordance with all applicable ASTM and industry standards for the collection of samples. However, it should be noted that the collected samples analyzed for this investigation represent isolated data points within and near the boundaries of the Subject Property and should not be considered to represent homogeneous subsurface conditions across the entire property.

The selection of sampling locations was based on a random determination of high probability areas of potential environmental impact as reflected by the locations of suspect source areas, the physical setting of the Subject Property, and results from previous soil and groundwater sampling events.

## 2.0 SITE AND VICINITY DESCRIPTION

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### 2.1 General Site Description

The Subject Property is comprised of one (1) parcel encompassing approximately 7.9 acres located at 3301 Williamsburg Avenue in the City of Richmond, Virginia in an urban setting (Appendix 1). A coal gasification plant formerly existed on the site; however, a proposal has been formulated for renovation and reuse of the Site by the City of Richmond.

### 2.2 Site Utilities

According to City of Richmond Department of Public Utilities (DPU) mapping, municipal service mains for various utilities extend beneath or alongside the peripheral roadways from which inactive/disconnected service lines are suspected of extending onto the Subject Property. Ground penetrating radar (GPR) surveys conducted on-site show the existence of utilities on the property, including active public utilities connections along the eastern, northern, and southern portions.

### 2.3 Physical Setting

#### 2.3.1 Topography

According to the 1994 U.S. Geological Survey (USGS) 7.5 Minute topographic map for the Richmond, Virginia Quadrangle and visual observations, the topography of the Subject Property is relatively flat with a slight gradient to the south and an average elevation of approximately 20 feet above mean sea level (Appendix 1).

#### 2.3.2 Geology

As illustrated by the Geologic Map of Virginia, the Subject Site is located in the Coastal Plain Physiographic Province in close proximity to the Fall Line, which is the boundary separating the Coastal Plain Province from the westward Piedmont Physiographic Province. In general, the Coastal Plain is underlain by a wedge of unconsolidated to semi-consolidated, predominantly clastic sedimentary rocks that consist of mostly sand, silt and clay with lesser amounts of gravel and limestone. Coastal plain formations thicken seaward from a feather edge at their updip limit along the Fall Line, where they overlie older metamorphic, igneous, and consolidated sedimentary rocks of the Piedmont Province, and attain thicknesses ranging from approximately 3,500 to 6,500 feet along the coast (Meisler and Miller, 1988).

According to the Geologic Map of Virginia (1993), the Subject Property is underlain by Lower Tertiary Deposits as described below:

**Lower Tertiary Deposits:** glauconitic sand and clay-silt, shelly in part, minor sandy limestone and limey sand.

At depth, the Subject Site is further underlain by the Petersburg Granite of the Piedmont Physiographic Province which is generally described as pink to blue faintly foliated coarse grained granite with a high relative hardness.

#### 2.3.3 Hydrology

The 2013 USGS 7.5 Minute topographic map for the Richmond, Virginia Quadrangle was reviewed to extrapolate groundwater characteristics in the area of the Subject Property. As a result, groundwater is determined to flow to the south and west under the influence of the James River which is located approximately 600 feet west of the Subject Property. As the Site is located below the rapids in downtown Richmond, groundwater flow may also be affected by tidal influence on the lower James River. Gillies

Creek, which borders the Subject Property to the south and west, offers no effect to groundwater flow since the stream channel is fully lined with concrete.

### 3.0 SAMPLING PROCEDURES

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Timmons Group was onsite June 2-3, 2016 to advance nineteen (19) Geoprobe® borings into the subsurface across the property. Vapor sampling points were placed for the purpose of collecting soil gas samples in conjunction with completing a soil gas survey. Upon learning that one collected sample was null, Timmons Group returned to the site on June 10, 2016 to collect a repeat sample at vapor point 9.

#### 3.1 Vapor Sampling

The Geoprobe® soil boring locations were selected to evaluate the presence of subsurface vapor impact from potential onsite and/or offsite sources.

Geoprobe® activity was completed in accordance with the following protocol using a two (2) inch diameter by five (5) foot long continuous Macro-Core® sampler:

*Prior to advancement into the subsurface, the Macro-Core® sampler was washed in an Alconox® solution and rinsed with clean water after which a new acetate liner was inserted into the sampler. The sampler was then positioned beneath the drive head of the Geoprobe® and advanced into the subsurface to the desired depth. Upon attaining the desired depth, the Macro-Core® sampler was withdrawn from the subsurface to enable the construction of the vapor point.*

Each vapor point was constructed in the following manner:

*Once the Geoprobe® boring was completed to the desired depth, approximately six (6) inches of sand was initially placed into the bottom of the hole followed by the stainless steel vapor point which was connected to an approximately seven (7) foot long segment of 3/8 inch (outer diameter) Teflon tubing to enable extension above surface grade. The remainder of the hole was then backfilled with sand to approximately one (1) foot from grade with the remainder of the hole backfilled with bentonite chips that were then hydrated to form a seal. At the surface, the extension of the vapor point tubing was encased within a section of PVC pipe that was inserted into the bentonite seal.*

Vapor sampling was conducted in accordance with the following protocol:

*Once installation was complete, the vapor point was purged with a peristaltic pump in preparation for sample collection. When sampled, the tubing was connected to a one-liter amber bottle that was laboratory prepared to be under a vacuum and thus draw the soil gas sample from the subsurface. When the vacuum on the bottle was exhausted, the sampling apparatus was disconnected and the bottle packed for transportation to the laboratory.*

## 4.0 ANALYTICAL RESULTS

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The analytical data generated from the vapor sampling indicate multiple detections of VOCs, including measured concentrations above VRP Tier III Residential Subslab Soil Gas Screening Levels as detailed below.

- VP#10: Benzene;
- VP#12: Benzene;
- VP#13: 1,2,4-Trimethylbenzene and Total Xylenes;
- VP#14: Benzene, Ethylbenzene, 1,2,4-Trimethylbenzene, m,p-Xylenes, and total Xylenes;
- VP#15: Benzene, Naphthalene, and 1,2,4-Trimethylbenzene;
- VP#16: Benzene, Ethylbenzene, Naphthalene, 1,2,4-Trimethylbenzene, o-Xylenes, m,p-Xylenes, and total Xylenes; and
- VP#19: Benzene.

The cumulative analytical summary tables are included as Appendix 2 while the complete laboratory report is included as Appendix 3.

In addition, Timmons Group prepared isoconcentration maps of multiple contaminants (both exceeding regulatory limits and detected on-site) to help identify the movement of compounds through the subsurface of the Subject Property (Appendix 4).

## 5.0 SUMMARY AND RECOMMENDATIONS

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Timmons Group has completed a soil gas survey for the former Fulton Gas Works located on approximately 7.9 acres at 3301 Williamsburg Avenue in the City of Richmond, Virginia. Based on proposed usage and the associated identification of potential risk, the assessment entailed the collection of vapor samples from the Subject Property for laboratory analysis of suspect contaminants.

Based on the proposed redevelopment of the Site, the measured vapor concentrations of VOCs and the associated regulatory exceedances serve as a basis for necessitating remediation. Depending upon the proposed usage, remediation could entail source removal by excavation and replacement with clean fill as feasible. Timmons Group further recommends the use of vapor barriers on any future enclosed slab-on-grade structures to passively mitigate the potential for soil gas infiltration and/or to enhance active vapor mitigation.

The Subject Property is currently enrolled in the DEQ VRP from which additional data associated with the presence and/or migration of subsurface contamination will be assessed through additional site characterization before the appropriate method(s) of remediation is/are identified.

## 6.0 REFERENCES

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ASTM Standard E 1903-11 Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process.

Commonwealth of Virginia, Department of Mines Minerals and Energy, 1993. Geologic Map of Virginia.

Meisler, H., Miller, J.A., Knobel, L.L., and Waite, R.L., 1988. Region 22, Atlantic and eastern Gulf Coastal Plain, *in* Back, W., Rosenshein, J.S., and Seaber, P.R., eds., Hydrogeology: Boulder, Colorado, Geological Society of America, The Geology of North America, v. O-2.

U.S. Geological Survey, 2013. 7.5 Minute Series Richmond, Virginia Topographic Quadrangle Map, 1:24000 scale.



## **APPENDICES**

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**Appendix 1 Site Maps**

**Appendix 2 Cumulative Analytical Summary Tables**

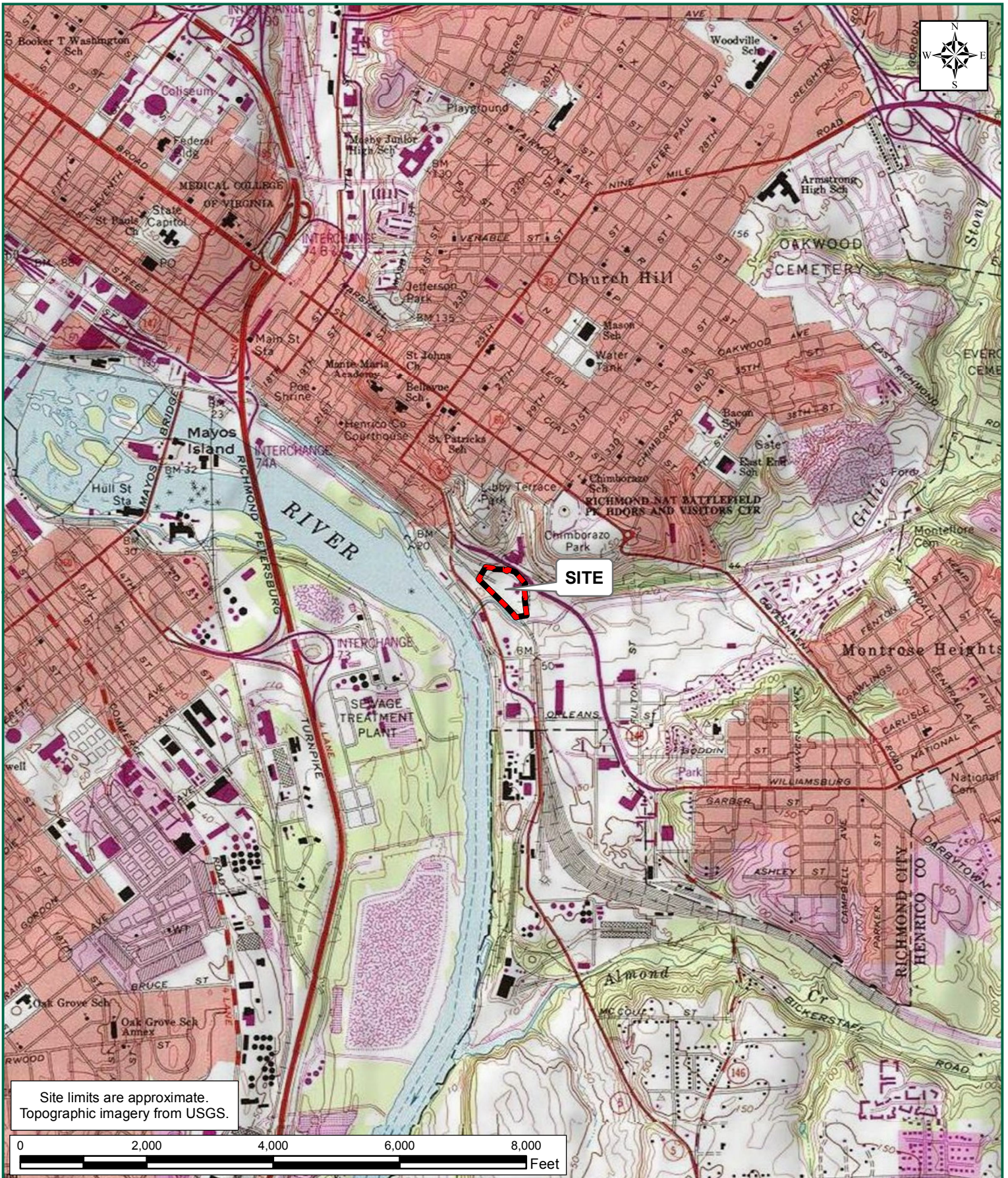
**Appendix 3 Air Water and Soil Laboratories Reports**

**Appendix 4 Isoconcentration Maps**

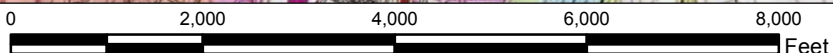
# ***APPENDIX 1***

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## **Site Maps**



Site limits are approximate.  
Topographic imagery from USGS.



**FULTON GAS WORKS**  
CITY OF RICHMOND, VIRGINIA  
**FIGURE 1: VICINITY MAP**

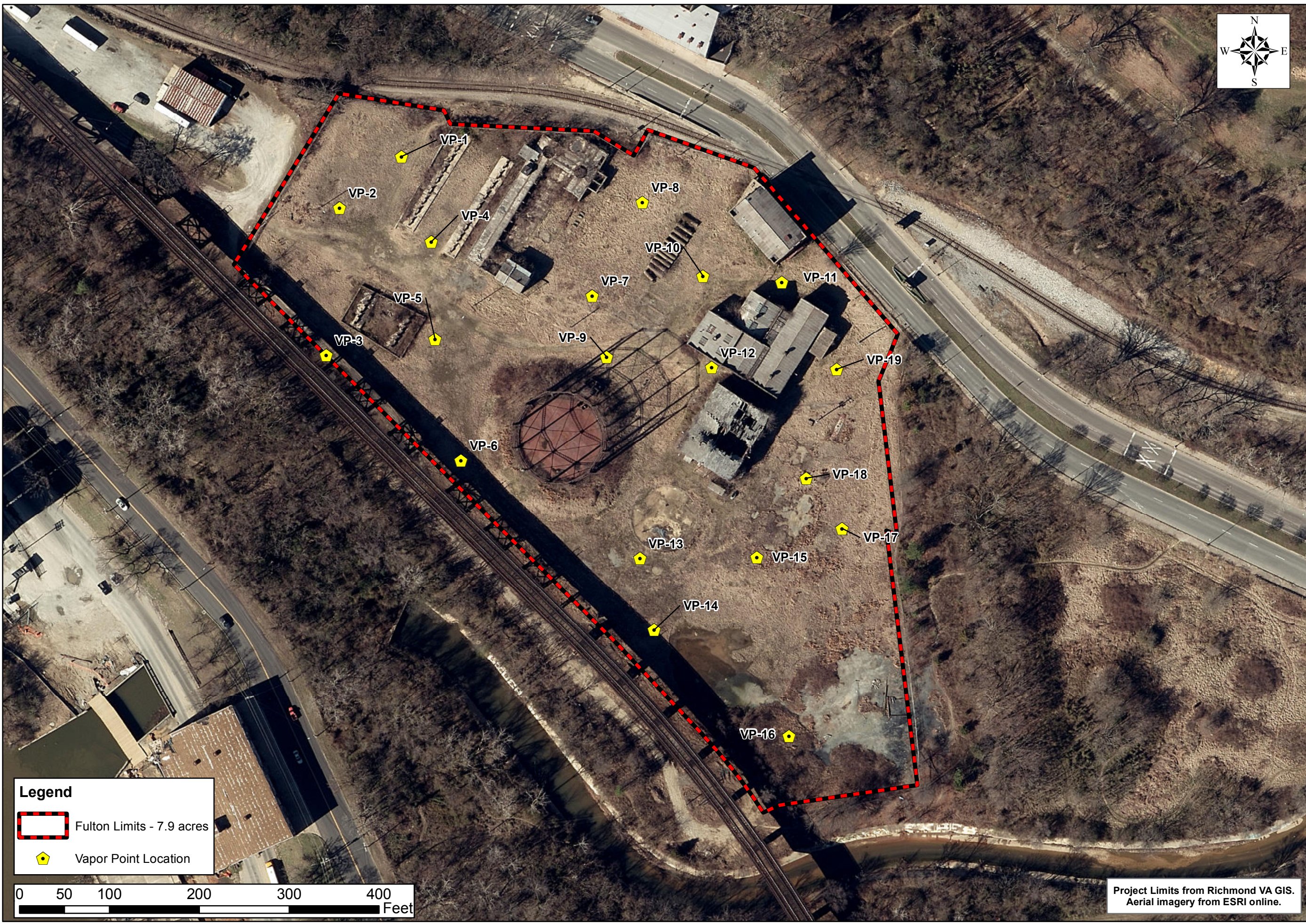
**TIMMONS GROUP**  
YOUR VISION ACHIEVED THROUGH OURS.

TIMMONS GROUP JOB NUMBER: 36156.006  
PROJECT STUDY LIMITS: 324 ACRES  
LATITUDE: 37° 31' 24.9" N  
LONGITUDE: 77° 24' 55.8" W

U.S.G.S. QUADRANGLE(S): RICHMOND  
DATE(S): 2013  
WATERSHED(S): LOWER JAMES  
HYDROLOGIC UNIT CODE(S): 02080206

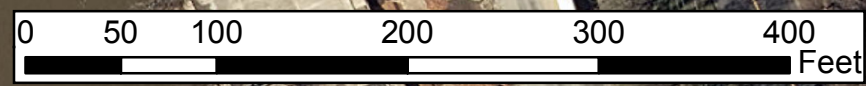
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Path: Y:\804136156.006-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Fulton Gas Works Vapor Point Map.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

**TIMMONS GROUP**  
**FULTON GAS WORKS**  
 CITY OF RICHMOND, VIRGINIA  
**SAMPLING LOCATION MAP**

THIS DRAWING PREPARED AT THE  
 CORPORATE OFFICE  
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YOUR VISION ACHIEVED THROUGH OURS  
 Site Development | Residential | Infrastructure | Technology | Environmental

DATE	REVISION DESCRIPTION
12/4/2015	

DATE  
12/4/2015  
 DRAWN BY  
B. NORRIS  
 DESIGNED BY  
S. VARGO  
 CHECKED BY  
J. RUSSELL  
 SCALE  
1" = 100'

JOB NUMBER  
36156.016  
 SHEET NO.  
1 OF 1

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## ***APPENDIX 2***

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### **Cumulative Analytical Summary Tables**

**Table 1: Soil Vapor Analytical Results for the former Fulton Gas Works**

Analyte	VRP Tier III Residential Subslab Soil Gas Screening Level (µg/m3)	VP#1 (µg/m3)	VP#2 (µg/m3)	VP#5 (µg/m3)	VP#7 (µg/m3)	VP#10 (µg/m3)
Benzene	333	330	46	6.9	78	340
1,3-Butadiene						
Carbon Disulfide	2430	190		4.5		74
Chloroform	137	44				
Chloromethane	313	10			38	
Cyclohexane	20,900	27		9.9	110	53
Ethylbenzene	374					
Heptane		22				33
(n-)Hexane	2430	41				84
Isopropylbenzene	1390					
Methyl Ethyl Ketone	17,400	29		4.1		
Naphthalene	10.4					
Propene (Propylene)		970	30	47	380	350
Styrene	3,480					
Toluene	17,400	86				64
1,2,4-Trimethylbenzene	24.3					
1,3,5-Trimethylbenzene						
o-Xylenes	367					
m,p-Xylenes	700	27				
Xylenes, Total	348	27				

**NOTES:** Samples analyzed using EPA Method TO-15  
 Highlighted results reflect exceedances of VRP Residential Screening Levels  
 Blanks represent no detect

(Continued)

**Table 1: Soil Vapor Analytical Results for the former Fulton Gas Works**

Analyte	VRP Tier III Residential Subslab Soil Gas Screening Level ( $\mu\text{g}/\text{m}^3$ )	VP#11 ( $\mu\text{g}/\text{m}^3$ )	VP#12 ( $\mu\text{g}/\text{m}^3$ )	VP#13 ( $\mu\text{g}/\text{m}^3$ )	VP#14 ( $\mu\text{g}/\text{m}^3$ )
Benzene	333		560	180	440
1,3-Butadiene			26		
Carbon Disulfide	2430				
Chloroform	137				
Chloromethane	313				
Cyclohexane	20,900	13			
Ethylbenzene	374				1800
Heptane				590	
(n-)Hexane	2430			920	
Isopropylbenzene	1390				500
Methyl Ethyl Ketone	17,400				
Naphthalene	10.4				
Propene (Propylene)		67	110		
Styrene	3,480			270	
Toluene	17,400		66	300	
1,2,4-Trimethylbenzene	24.3			590	4700
1,3,5-Trimethylbenzene				350	1700
o-Xylenes	367			230	
m,p-Xylenes	700			430	820
Xylenes, Total	348			660	820

**NOTES:** Samples analyzed using EPA Method TO-15  
 Highlighted results reflect exceedances of VRP Residential Screening Levels  
 Blanks represent no detect

(Continued)

**Table 1: Soil Vapor Analytical Results for the former Fulton Gas Works**

Analyte	VRP Tier III Residential Subslab Soil Gas Screening Level (µg/m3)	VP#15 (µg/m3)	VP#16 (µg/m3)	VP#18 (µg/m3)	VP#19 (µg/m3)
Benzene	333	790	2500	46	1500
1,3-Butadiene					
Carbon Disulfide	2430				
Chloroform	137				
Chloromethane	313				
Cyclohexane	20,900				57
Ethylbenzene	374	330	4900		190
Heptane					
(n-)Hexane	2430				
Isopropylbenzene	1390	230	1100		
Methyl Ethyl Ketone	17,400				
Naphthalene	10.4	1800	6300		
Propene (Propylene)		57	110	43	99
Styrene	3,480				
Toluene	17,400	340	5000	44	720
1,2,4-Trimethylbenzene	24.3	2300	7300		
1,3,5-Trimethylbenzene		840	3600		
o-Xylenes	367		5200		67
m,p-Xylenes	700	270	9300		220
Xylenes, Total	348	270	15000		290

**NOTES:** Samples analyzed using EPA Method TO-15  
 Highlighted results reflect exceedances of VRP Residential Screening Levels  
 Blanks represent no detect



## ***APPENDIX 3***

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### **Air Water and Soil Laboratories Reports**



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

## Certificate of Analysis

*Final Report*

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05  
Project Number: 36156.006  
Purchase Order:

Submitted To: Joe France

Client Site I.D.: Fulton Gasworks - Air

Enclosed are the results of analyses for samples received by the laboratory on 06/03/2016 16:58. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars  
Laboratory Manager

### End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized





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## Certificate of Analysis

### Final Report

Laboratory Order ID 16F0127

Client Name:	France Environmental, Inc.	Date Received:	June 3, 2016 16:58
	7834 Forest Hill Ave. Suite 7	Date Issued:	June 21, 2016 12:05
	Richmond, VA 23225	Project Number:	36156.006
Submitted To:	Joe France	Purchase Order:	
Client Site I.D.:	Fulton Gasworks - Air		

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-1	16F0127-01	Air	06/03/2016 10:25	06/03/2016 16:58
VP-2	16F0127-02	Air	06/03/2016 10:27	06/03/2016 16:58
VP-3	16F0127-03	Air	06/03/2016 10:30	06/03/2016 16:58
VP-4	16F0127-04	Air	06/03/2016 10:32	06/03/2016 16:58
VP-5	16F0127-05	Air	06/03/2016 10:36	06/03/2016 16:58
VP-6	16F0127-06	Air	06/03/2016 10:38	06/03/2016 16:58
VP-7	16F0127-07	Air	06/03/2016 10:41	06/03/2016 16:58
VP-8	16F0127-08	Air	06/03/2016 10:43	06/03/2016 16:58
VP-10	16F0127-10	Air	06/03/2016 10:49	06/03/2016 16:58
VP-11	16F0127-11	Air	06/03/2016 10:51	06/03/2016 16:58
VP-12	16F0127-12	Air	06/03/2016 10:54	06/03/2016 16:58
VP-13	16F0127-13	Air	06/03/2016 10:58	06/03/2016 16:58
VP-14	16F0127-14	Air	06/03/2016 11:01	06/03/2016 16:58
VP-15	16F0127-15	Air	06/03/2016 11:06	06/03/2016 16:58
VP-16	16F0127-16	Air	06/03/2016 11:03	06/03/2016 16:58
VP-17	16F0127-17	Air	06/03/2016 11:09	06/03/2016 16:58
VP-18	16F0127-18	Air	06/03/2016 11:11	06/03/2016 16:58
VP-19	16F0127-19	Air	06/03/2016 11:14	06/03/2016 16:58



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-1	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-01	Canister ID: #16072	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:25		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	1.33	3.33		ND	7.3	18	1	6.67		6/14/16 16:01	RJW	
1,1,1,2-Tetrachloroethane	ND	1.33	3.33		ND	9.2	23	1	6.67		6/14/16 16:01	RJW	
1,1,2,2-Tetrachloroethane	ND	1.33	3.33		ND	9.2	23	1	6.67		6/14/16 16:01	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.33	3.33		ND	10	26	1	6.67		6/14/16 16:01	RJW	
1,1,2-Trichloroethane	ND	1.33	3.33		ND	7.3	18	1	6.67		6/14/16 16:01	RJW	
1,1-Dichloroethane	ND	1.33	3.33		ND	5.4	13	1	6.67		6/14/16 16:01	RJW	
1,1-Dichloroethylene	ND	1.33	3.33		ND	5.3	13	1	6.67		6/14/16 16:01	RJW	
1,2,4-Trimethylbenzene	ND	1.33	3.33		ND	6.6	16	1	6.67		6/14/16 16:01	RJW	
1,2-Dibromoethane (EDB)	ND	1.33	3.33		ND	10	26	1	6.67		6/14/16 16:01	RJW	
1,2-Dichlorobenzene	ND	1.33	3.33		ND	8.0	20	1	6.67		6/14/16 16:01	RJW	
1,2-Dichloroethane	ND	1.33	3.33		ND	5.4	13	1	6.67		6/14/16 16:01	RJW	
1,2-Dichloropropane	ND	1.33	3.33		ND	6.2	15	1	6.67		6/14/16 16:01	RJW	
1,2-Dichlorotetrafluoroethane	ND	1.33	3.33		ND	9.3	23	1	6.67		6/14/16 16:01	RJW	
1,3,5-Trimethylbenzene	ND	1.33	3.33		ND	6.6	16	1	6.67		6/14/16 16:01	RJW	
1,3-Butadiene	ND	1.33	3.33		ND	2.9	7.4	1	6.67		6/14/16 16:01	RJW	
1,3-Dichlorobenzene	ND	1.33	3.33		ND	8.0	20	1	6.67		6/14/16 16:01	RJW	
1,4-Dichlorobenzene	ND	1.33	3.33		ND	8.0	20	1	6.67		6/14/16 16:01	RJW	
1,4-Dioxane	ND	1.33	3.33		ND	4.8	12	1	6.67		6/14/16 16:01	RJW	
2-Butanone (MEK)	9.87	1.33	3.33		29	3.9	9.8	1	6.67		6/14/16 16:01	RJW	
4-Methyl-2-pentanone (MIBK)	ND	1.33	3.33		ND	15	38	1	6.67		6/14/16 16:01	RJW	
Acrolein	ND	1.33	3.33		ND	3.1	7.6	1	6.67		6/14/16 16:01	RJW	
Allyl chloride	ND	1.33	3.33		ND	4.2	10	1	6.67		6/14/16 16:01	RJW	
Benzene	103	1.33	3.33		330	4.3	11	1	6.67		6/14/16 16:01	RJW	
Benzyl Chloride	ND	1.33	3.33		ND	6.9	17	1	6.67		6/14/16 16:01	RJW	
Bromodichloromethane	ND	1.33	3.33		ND	8.9	22	1	6.67		6/14/16 16:01	RJW	
Bromoform	ND	1.33	3.33		ND	14	34	1	6.67		6/14/16 16:01	RJW	
Bromomethane	ND	1.33	3.33		ND	5.2	13	1	6.67		6/14/16 16:01	RJW	
Carbon Disulfide	59.6	3.33	3.33		190	10	10	1	6.67		6/14/16 16:01	RJW	
Carbon Tetrachloride	ND	1.33	3.33		ND	8.4	21	1	6.67		6/14/16 16:01	RJW	
Chlorobenzene	ND	1.33	3.33		ND	6.1	15	1	6.67		6/14/16 16:01	RJW	
Chloroethane	ND	1.33	3.33		ND	3.5	8.8	1	6.67		6/14/16 16:01	RJW	
Chloroform	9.00	1.33	3.33		44	6.5	16	1	6.67		6/14/16 16:01	RJW	
Chloromethane	4.93	1.33	3.33		10	2.8	6.9	1	6.67		6/14/16 16:01	RJW	
cis-1,2-Dichloroethylene	ND	1.33	3.33		ND	5.3	13	1	6.67		6/14/16 16:01	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-1**  
**Sample ID: 16F0127-01**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:25  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16072  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	1.33	3.33		ND	6.1	15	1	6.67	6/14/16 16:01	RJW	
Cyclohexane	7.80	1.33	3.33		27	4.6	11	1	6.67	6/14/16 16:01	RJW	
Dichlorodifluoromethane	ND	3.33	3.33		ND	16	16	1	6.67	6/14/16 16:01	RJW	
Ethyl acetate	ND	1.33	3.33		ND	4.8	12	1	6.67	6/14/16 16:01	RJW	
Ethylbenzene	ND	1.33	3.33		ND	5.8	14	1	6.67	6/14/16 16:01	RJW	
Heptane	5.33	1.33	3.33		22	5.5	14	1	6.67	6/14/16 16:01	RJW	
Hexane	11.7	1.33	3.33		41	4.7	12	1	6.67	6/14/16 16:01	RJW	
Isopropylbenzene	ND	1.33	3.33		ND	6.6	16	1	6.67	6/14/16 16:01	RJW	
m+p-Xylenes	6.27	2.67	6.67	J	27	12	29	1	6.67	6/14/16 16:01	RJW	
Methyl methacrylate	ND	1.33	3.33		ND	5.5	14	1	6.67	6/14/16 16:01	RJW	
Methylene chloride	ND	3.33	6.67		ND	12	23	1	6.67	6/14/16 16:01	RJW	
Methyl-t-butyl ether (MTBE)	ND	1.33	3.33		ND	4.8	12	1	6.67	6/14/16 16:01	RJW	
o-Xylene	ND	1.33	3.33		ND	5.8	14	1	6.67	6/14/16 16:01	RJW	
Propylene	562	25.0	62.5		970	43	110	1	125	6/16/16 16:30	RJW	
Styrene	ND	1.33	3.33		ND	5.7	14	1	6.67	6/14/16 16:01	RJW	
TBA	ND	3.33	3.33		ND	10	10	1	6.67	6/14/16 16:01	RJW	
Tetrachloroethylene (PCE)	ND	1.33	3.33		ND	9.0	23	1	6.67	6/14/16 16:01	RJW	
Tetrahydrofuran	ND	1.33	3.33		ND	3.9	9.8	1	6.67	6/14/16 16:01	RJW	
Toluene	22.9	1.33	3.33		86	5.0	13	1	6.67	6/14/16 16:01	RJW	
trans-1,2-Dichloroethylene	ND	1.33	3.33		ND	5.3	13	1	6.67	6/14/16 16:01	RJW	
trans-1,3-Dichloropropene	ND	1.33	3.33		ND	6.1	15	1	6.67	6/14/16 16:01	RJW	
Trichloroethylene	ND	1.33	3.33		ND	7.2	18	1	6.67	6/14/16 16:01	RJW	
Trichlorofluoromethane	ND	3.33	3.33		ND	19	19	1	6.67	6/14/16 16:01	RJW	
Vinyl acetate	ND	1.33	3.33		ND	4.7	12	1	6.67	6/14/16 16:01	RJW	
Vinyl bromide	ND	1.33	3.33		ND	5.8	15	1	6.67	6/14/16 16:01	RJW	
Vinyl chloride	ND	1.33	3.33		ND	3.4	8.5	1	6.67	6/14/16 16:01	RJW	
Xylenes, Total	6.27	4.00	10.0	J	27	17	43	1	6.67	6/14/16 16:01	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	107			80-120			6/16/16 16:30					
4-Bromofluorobenzene	97.2			80-120			6/14/16 16:01					



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-2	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-02	Canister ID: #16073	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:27		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 14:50	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 14:50	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 14:50	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/18/16 14:50	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 14:50	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 14:50	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 14:50	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 14:50	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/18/16 14:50	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 14:50	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 14:50	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/18/16 14:50	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/18/16 14:50	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 14:50	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/18/16 14:50	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 14:50	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 14:50	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/18/16 14:50	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/18/16 14:50	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/18/16 14:50	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/18/16 14:50	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/18/16 14:50	RJW	
Benzene	14.5	5.00	12.5		46	16	40	1	25		6/18/16 14:50	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/18/16 14:50	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/18/16 14:50	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/18/16 14:50	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/18/16 14:50	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/18/16 14:50	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/18/16 14:50	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/18/16 14:50	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/18/16 14:50	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/18/16 14:50	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/18/16 14:50	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 14:50	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-2**  
**Sample ID: 16F0127-02**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:27  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16073  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 14:50	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/18/16 14:50	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/18/16 14:50	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/18/16 14:50	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 14:50	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 14:50	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/18/16 14:50	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 14:50	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/18/16 14:50	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/18/16 14:50	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/18/16 14:50	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/18/16 14:50	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 14:50	RJW	
Propylene	17.5	5.00	12.5		30	8.6	22	1	25		6/18/16 14:50	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/18/16 14:50	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/18/16 14:50	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/18/16 14:50	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/18/16 14:50	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25		6/18/16 14:50	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 14:50	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 14:50	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/18/16 14:50	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/18/16 14:50	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/18/16 14:50	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/18/16 14:50	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/18/16 14:50	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/18/16 14:50	RJW	
Surrogate(s)		% Recovery			% Recovery Limits								
4-Bromofluorobenzene		83.0			80-120						6/18/16 14:50		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-3	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-03	Canister ID: #16074	Receipt Vacuum(in Hg): 0
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:30		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 15:50	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 15:50	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 15:50	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/15/16 15:50	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 15:50	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 15:50	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 15:50	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 15:50	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/15/16 15:50	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 15:50	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 15:50	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/15/16 15:50	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/15/16 15:50	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 15:50	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/15/16 15:50	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 15:50	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 15:50	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/15/16 15:50	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/15/16 15:50	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/15/16 15:50	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/15/16 15:50	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/15/16 15:50	RJW	
Benzene	ND	5.00	12.5		ND	16	40	1	25		6/15/16 15:50	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/15/16 15:50	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/15/16 15:50	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/15/16 15:50	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/15/16 15:50	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/15/16 15:50	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/15/16 15:50	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/15/16 15:50	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/15/16 15:50	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/15/16 15:50	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/15/16 15:50	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 15:50	RJW	





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-3	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-03	Canister ID: #16074	Receipt Vacuum(in Hg): 0
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:30		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/15/16 15:50	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/15/16 15:50	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/15/16 15:50	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/15/16 15:50	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/15/16 15:50	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 15:50	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/15/16 15:50	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 15:50	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/15/16 15:50	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/15/16 15:50	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/15/16 15:50	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/15/16 15:50	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/15/16 15:50	RJW	
Propylene	ND	5.00	12.5		ND	8.6	22	1	25		6/15/16 15:50	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/15/16 15:50	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/15/16 15:50	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/15/16 15:50	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/15/16 15:50	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25		6/15/16 15:50	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 15:50	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/15/16 15:50	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/15/16 15:50	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/15/16 15:50	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/15/16 15:50	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/15/16 15:50	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/15/16 15:50	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/15/16 15:50	RJW	
Surrogate(s)	% Recovery			% Recovery Limits									
4-Bromofluorobenzene	81.2			80-120							6/15/16 15:50		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-4	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-04	Canister ID: #16174	Receipt Vacuum(in Hg): 3
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:32		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	0.25	0.62		ND	1.4	3.4	1	1.25		6/14/16 17:31	RJW	
1,1,1,2-Tetrachloroethane	ND	0.25	0.62		ND	1.7	4.3	1	1.25		6/14/16 17:31	RJW	
1,1,2,2-Tetrachloroethane	ND	0.25	0.62		ND	1.7	4.3	1	1.25		6/14/16 17:31	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.25	0.62		ND	1.9	4.8	1	1.25		6/14/16 17:31	RJW	
1,1,2-Trichloroethane	ND	0.25	0.62		ND	1.4	3.4	1	1.25		6/14/16 17:31	RJW	
1,1-Dichloroethane	ND	0.25	0.62		ND	1.0	2.5	1	1.25		6/14/16 17:31	RJW	
1,1-Dichloroethylene	ND	0.25	0.62		ND	0.99	2.5	1	1.25		6/14/16 17:31	RJW	
1,2,4-Trimethylbenzene	ND	0.25	0.62		ND	1.2	3.1	1	1.25		6/14/16 17:31	RJW	
1,2-Dibromoethane (EDB)	ND	0.25	0.62		ND	1.9	4.8	1	1.25		6/14/16 17:31	RJW	
1,2-Dichlorobenzene	ND	0.25	0.62		ND	1.5	3.8	1	1.25		6/14/16 17:31	RJW	
1,2-Dichloroethane	ND	0.25	0.62		ND	1.0	2.5	1	1.25		6/14/16 17:31	RJW	
1,2-Dichloropropane	ND	0.25	0.62		ND	1.2	2.9	1	1.25		6/14/16 17:31	RJW	
1,2-Dichlorotetrafluoroethane	ND	0.25	0.62		ND	1.7	4.4	1	1.25		6/14/16 17:31	RJW	
1,3,5-Trimethylbenzene	ND	0.25	0.62		ND	1.2	3.1	1	1.25		6/14/16 17:31	RJW	
1,3-Butadiene	ND	0.25	0.62		ND	0.55	1.4	1	1.25		6/14/16 17:31	RJW	
1,3-Dichlorobenzene	ND	0.25	0.62		ND	1.5	3.8	1	1.25		6/14/16 17:31	RJW	
1,4-Dichlorobenzene	ND	0.25	0.62		ND	1.5	3.8	1	1.25		6/14/16 17:31	RJW	
1,4-Dioxane	ND	0.25	0.62		ND	0.90	2.3	1	1.25		6/14/16 17:31	RJW	
2-Butanone (MEK)	ND	0.25	0.62		ND	0.74	1.8	1	1.25		6/14/16 17:31	RJW	
4-Methyl-2-pentanone (MIBK)	ND	0.25	0.62		ND	2.9	7.2	1	1.25		6/14/16 17:31	RJW	
Acrolein	ND	0.25	0.62		ND	0.57	1.4	1	1.25		6/14/16 17:31	RJW	
Allyl chloride	ND	0.25	0.62		ND	0.78	2.0	1	1.25		6/14/16 17:31	RJW	
Benzene	ND	0.25	0.62		ND	0.80	2.0	1	1.25		6/14/16 17:31	RJW	
Benzyl Chloride	ND	0.25	0.62		ND	1.3	3.2	1	1.25		6/14/16 17:31	RJW	
Bromodichloromethane	ND	0.25	0.62		ND	1.7	4.2	1	1.25		6/14/16 17:31	RJW	
Bromoform	ND	0.25	0.62		ND	2.6	6.5	1	1.25		6/14/16 17:31	RJW	
Bromomethane	ND	0.25	0.62		ND	0.97	2.4	1	1.25		6/14/16 17:31	RJW	
Carbon Disulfide	ND	0.62	0.62		ND	1.9	1.9	1	1.25		6/14/16 17:31	RJW	
Carbon Tetrachloride	ND	0.25	0.62		ND	1.6	3.9	1	1.25		6/14/16 17:31	RJW	
Chlorobenzene	ND	0.25	0.62		ND	1.2	2.9	1	1.25		6/14/16 17:31	RJW	
Chloroethane	ND	0.25	0.62		ND	0.66	1.6	1	1.25		6/14/16 17:31	RJW	
Chloroform	ND	0.25	0.62		ND	1.2	3.1	1	1.25		6/14/16 17:31	RJW	
Chloromethane	ND	0.25	0.62		ND	0.52	1.3	1	1.25		6/14/16 17:31	RJW	
cis-1,2-Dichloroethylene	ND	0.25	0.62		ND	0.99	2.5	1	1.25		6/14/16 17:31	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-4**  
**Sample ID: 16F0127-04**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:32  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16174  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 3  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	0.25	0.62		ND	1.1	2.8	1	1.25	6/14/16 17:31	RJW	
Cyclohexane	ND	0.25	0.62		ND	0.86	2.2	1	1.25	6/14/16 17:31	RJW	
Dichlorodifluoromethane	ND	0.62	0.62		ND	3.1	3.1	1	1.25	6/14/16 17:31	RJW	
Ethyl acetate	ND	0.25	0.62		ND	0.90	2.3	1	1.25	6/14/16 17:31	RJW	
Ethylbenzene	ND	0.25	0.62		ND	1.1	2.7	1	1.25	6/14/16 17:31	RJW	
Heptane	ND	0.25	0.62		ND	1.0	2.6	1	1.25	6/14/16 17:31	RJW	
Hexane	ND	0.25	0.62		ND	0.88	2.2	1	1.25	6/14/16 17:31	RJW	
Isopropylbenzene	ND	0.25	0.62		ND	1.2	3.1	1	1.25	6/14/16 17:31	RJW	
m+p-Xylenes	ND	0.50	1.25		ND	2.2	5.4	1	1.25	6/14/16 17:31	RJW	
Methyl methacrylate	ND	0.25	0.62		ND	1.0	2.6	1	1.25	6/14/16 17:31	RJW	
Methylene chloride	ND	0.62	1.25		ND	2.2	4.3	1	1.25	6/14/16 17:31	RJW	
Methyl-t-butyl ether (MTBE)	ND	0.25	0.62		ND	0.90	2.3	1	1.25	6/14/16 17:31	RJW	
o-Xylene	ND	0.25	0.62		ND	1.1	2.7	1	1.25	6/14/16 17:31	RJW	
Propylene	ND	0.25	0.62		ND	0.43	1.1	1	1.25	6/14/16 17:31	RJW	
Styrene	ND	0.25	0.62		ND	1.1	2.7	1	1.25	6/14/16 17:31	RJW	
TBA	ND	0.62	0.62		ND	1.9	1.9	1	1.25	6/14/16 17:31	RJW	
Tetrachloroethylene (PCE)	ND	0.25	0.62		ND	1.7	4.2	1	1.25	6/14/16 17:31	RJW	
Tetrahydrofuran	ND	0.25	0.62		ND	0.74	1.8	1	1.25	6/14/16 17:31	RJW	
Toluene	ND	0.25	0.62		ND	0.94	2.4	1	1.25	6/14/16 17:31	RJW	
trans-1,2-Dichloroethylene	ND	0.25	0.62		ND	0.99	2.5	1	1.25	6/14/16 17:31	RJW	
trans-1,3-Dichloropropene	ND	0.25	0.62		ND	1.1	2.8	1	1.25	6/14/16 17:31	RJW	
Trichloroethylene	ND	0.25	0.62		ND	1.3	3.4	1	1.25	6/14/16 17:31	RJW	
Trichlorofluoromethane	ND	0.62	0.62		ND	3.5	3.5	1	1.25	6/14/16 17:31	RJW	
Vinyl acetate	ND	0.25	0.62		ND	0.88	2.2	1	1.25	6/14/16 17:31	RJW	
Vinyl bromide	ND	0.25	0.62		ND	1.1	2.7	1	1.25	6/14/16 17:31	RJW	
Vinyl chloride	ND	0.25	0.62		ND	0.64	1.6	1	1.25	6/14/16 17:31	RJW	
Xylenes, Total	ND	0.75	1.88		ND	3.3	8.1	1	1.25	6/14/16 17:31	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	97.8			80-120						6/14/16 17:31		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-5	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-05	Canister ID: #16076	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:36		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	0.50	1.25		ND	2.7	6.8	1	2.5	6/14/16 16:43	RJW
1,1,1,2-Tetrachloroethane	ND	0.50	1.25		ND	3.4	8.6	1	2.5	6/14/16 16:43	RJW
1,1,2,2-Tetrachloroethane	ND	0.50	1.25		ND	3.4	8.6	1	2.5	6/14/16 16:43	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	0.50	1.25		ND	3.8	9.6	1	2.5	6/14/16 16:43	RJW
1,1,2-Trichloroethane	ND	0.50	1.25		ND	2.7	6.8	1	2.5	6/14/16 16:43	RJW
1,1-Dichloroethane	ND	0.50	1.25		ND	2.0	5.1	1	2.5	6/14/16 16:43	RJW
1,1-Dichloroethylene	ND	0.50	1.25		ND	2.0	5.0	1	2.5	6/14/16 16:43	RJW
1,2,4-Trimethylbenzene	ND	0.50	1.25		ND	2.5	6.1	1	2.5	6/14/16 16:43	RJW
1,2-Dibromoethane (EDB)	ND	0.50	1.25		ND	3.8	9.6	1	2.5	6/14/16 16:43	RJW
1,2-Dichlorobenzene	ND	0.50	1.25		ND	3.0	7.5	1	2.5	6/14/16 16:43	RJW
1,2-Dichloroethane	ND	0.50	1.25		ND	2.0	5.1	1	2.5	6/14/16 16:43	RJW
1,2-Dichloropropane	ND	0.50	1.25		ND	2.3	5.8	1	2.5	6/14/16 16:43	RJW
1,2-Dichlorotetrafluoroethane	ND	0.50	1.25		ND	3.5	8.7	1	2.5	6/14/16 16:43	RJW
1,3,5-Trimethylbenzene	ND	0.50	1.25		ND	2.5	6.1	1	2.5	6/14/16 16:43	RJW
1,3-Butadiene	ND	0.50	1.25		ND	1.1	2.8	1	2.5	6/14/16 16:43	RJW
1,3-Dichlorobenzene	ND	0.50	1.25		ND	3.0	7.5	1	2.5	6/14/16 16:43	RJW
1,4-Dichlorobenzene	ND	0.50	1.25		ND	3.0	7.5	1	2.5	6/14/16 16:43	RJW
1,4-Dioxane	ND	0.50	1.25		ND	1.8	4.5	1	2.5	6/14/16 16:43	RJW
2-Butanone (MEK)	1.40	0.50	1.25		4.1	1.5	3.7	1	2.5	6/14/16 16:43	RJW
4-Methyl-2-pentanone (MIBK)	ND	0.50	1.25		ND	5.7	14	1	2.5	6/14/16 16:43	RJW
Acrolein	ND	0.50	1.25		ND	1.1	2.9	1	2.5	6/14/16 16:43	RJW
Allyl chloride	ND	0.50	1.25		ND	1.6	3.9	1	2.5	6/14/16 16:43	RJW
Benzene	2.15	0.50	1.25		6.9	1.6	4.0	1	2.5	6/14/16 16:43	RJW
Benzyl Chloride	ND	0.50	1.25		ND	2.6	6.5	1	2.5	6/14/16 16:43	RJW
Bromodichloromethane	ND	0.50	1.25		ND	3.4	8.4	1	2.5	6/14/16 16:43	RJW
Bromoform	ND	0.50	1.25		ND	5.2	13	1	2.5	6/14/16 16:43	RJW
Bromomethane	ND	0.50	1.25		ND	1.9	4.9	1	2.5	6/14/16 16:43	RJW
Carbon Disulfide	1.45	1.25	1.25		4.5	3.9	3.9	1	2.5	6/14/16 16:43	RJW
Carbon Tetrachloride	ND	0.50	1.25		ND	3.1	7.9	1	2.5	6/14/16 16:43	RJW
Chlorobenzene	ND	0.50	1.25		ND	2.3	5.8	1	2.5	6/14/16 16:43	RJW
Chloroethane	ND	0.50	1.25		ND	1.3	3.3	1	2.5	6/14/16 16:43	RJW
Chloroform	ND	0.50	1.25		ND	2.4	6.1	1	2.5	6/14/16 16:43	RJW
Chloromethane	ND	0.50	1.25		ND	1.0	2.6	1	2.5	6/14/16 16:43	RJW
cis-1,2-Dichloroethylene	ND	0.50	1.25		ND	2.0	5.0	1	2.5	6/14/16 16:43	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-5**  
**Sample ID: 16F0127-05**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:36  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16076  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	0.50	1.25		ND	2.3	5.7	1	2.5	6/14/16 16:43	RJW	
Cyclohexane	2.88	0.50	1.25		9.9	1.7	4.3	1	2.5	6/14/16 16:43	RJW	
Dichlorodifluoromethane	ND	1.25	1.25		ND	6.2	6.2	1	2.5	6/14/16 16:43	RJW	
Ethyl acetate	ND	0.50	1.25		ND	1.8	4.5	1	2.5	6/14/16 16:43	RJW	
Ethylbenzene	ND	0.50	1.25		ND	2.2	5.4	1	2.5	6/14/16 16:43	RJW	
Heptane	ND	0.50	1.25		ND	2.0	5.1	1	2.5	6/14/16 16:43	RJW	
Hexane	ND	0.50	1.25		ND	1.8	4.4	1	2.5	6/14/16 16:43	RJW	
Isopropylbenzene	ND	0.50	1.25		ND	2.5	6.1	1	2.5	6/14/16 16:43	RJW	
m+p-Xylenes	ND	1.00	2.50		ND	4.3	11	1	2.5	6/14/16 16:43	RJW	
Methyl methacrylate	ND	0.50	1.25		ND	2.0	5.1	1	2.5	6/14/16 16:43	RJW	
Methylene chloride	ND	1.25	2.50		ND	4.3	8.7	1	2.5	6/14/16 16:43	RJW	
Methyl-t-butyl ether (MTBE)	ND	0.50	1.25		ND	1.8	4.5	1	2.5	6/14/16 16:43	RJW	
o-Xylene	ND	0.50	1.25		ND	2.2	5.4	1	2.5	6/14/16 16:43	RJW	
Propylene	27.6	0.50	1.25		47	0.86	2.2	1	2.5	6/14/16 16:43	RJW	
Styrene	ND	0.50	1.25		ND	2.1	5.3	1	2.5	6/14/16 16:43	RJW	
TBA	ND	1.25	1.25		ND	3.8	3.8	1	2.5	6/14/16 16:43	RJW	
Tetrachloroethylene (PCE)	ND	0.50	1.25		ND	3.4	8.5	1	2.5	6/14/16 16:43	RJW	
Tetrahydrofuran	ND	0.50	1.25		ND	1.5	3.7	1	2.5	6/14/16 16:43	RJW	
Toluene	ND	0.50	1.25		ND	1.9	4.7	1	2.5	6/14/16 16:43	RJW	
trans-1,2-Dichloroethylene	ND	0.50	1.25		ND	2.0	5.0	1	2.5	6/14/16 16:43	RJW	
trans-1,3-Dichloropropene	ND	0.50	1.25		ND	2.3	5.7	1	2.5	6/14/16 16:43	RJW	
Trichloroethylene	ND	0.50	1.25		ND	2.7	6.7	1	2.5	6/14/16 16:43	RJW	
Trichlorofluoromethane	ND	1.25	1.25		ND	7.0	7.0	1	2.5	6/14/16 16:43	RJW	
Vinyl acetate	ND	0.50	1.25		ND	1.8	4.4	1	2.5	6/14/16 16:43	RJW	
Vinyl bromide	ND	0.50	1.25		ND	2.2	5.5	1	2.5	6/14/16 16:43	RJW	
Vinyl chloride	ND	0.50	1.25		ND	1.3	3.2	1	2.5	6/14/16 16:43	RJW	
Xylenes, Total	ND	1.50	3.75		ND	6.5	16	1	2.5	6/14/16 16:43	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	96.6			80-120						6/14/16 16:43		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-6	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-06	Canister ID: #16077	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:38		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 17:14	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 17:14	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 17:14	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/15/16 17:14	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 17:14	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 17:14	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 17:14	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 17:14	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/15/16 17:14	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 17:14	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 17:14	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/15/16 17:14	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/15/16 17:14	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 17:14	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/15/16 17:14	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 17:14	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 17:14	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/15/16 17:14	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/15/16 17:14	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/15/16 17:14	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/15/16 17:14	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/15/16 17:14	RJW	
Benzene	ND	5.00	12.5		ND	16	40	1	25		6/15/16 17:14	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/15/16 17:14	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/15/16 17:14	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/15/16 17:14	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/15/16 17:14	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/15/16 17:14	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/15/16 17:14	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/15/16 17:14	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/15/16 17:14	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/15/16 17:14	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/15/16 17:14	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 17:14	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-6	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-06	Canister ID: #16077	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:38		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/15/16 17:14	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/15/16 17:14	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/15/16 17:14	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/15/16 17:14	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/15/16 17:14	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 17:14	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/15/16 17:14	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 17:14	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/15/16 17:14	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/15/16 17:14	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/15/16 17:14	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/15/16 17:14	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/15/16 17:14	RJW	
Propylene	ND	5.00	12.5		ND	8.6	22	1	25		6/15/16 17:14	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/15/16 17:14	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/15/16 17:14	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/15/16 17:14	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/15/16 17:14	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25		6/15/16 17:14	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 17:14	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/15/16 17:14	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/15/16 17:14	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/15/16 17:14	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/15/16 17:14	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/15/16 17:14	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/15/16 17:14	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/15/16 17:14	RJW	
Surrogate(s)	% Recovery			% Recovery Limits									
4-Bromofluorobenzene	82.4			80-120			6/15/16 17:14						



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-7	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-07	Canister ID: #16078	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:41		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/14/16 16:39	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/14/16 16:39	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/14/16 16:39	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/14/16 16:39	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/14/16 16:39	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/14/16 16:39	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/14/16 16:39	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/14/16 16:39	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/14/16 16:39	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/14/16 16:39	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/14/16 16:39	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/14/16 16:39	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/14/16 16:39	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/14/16 16:39	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/14/16 16:39	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/14/16 16:39	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/14/16 16:39	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/14/16 16:39	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/14/16 16:39	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/14/16 16:39	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/14/16 16:39	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/14/16 16:39	RJW	
Benzene	24.5	5.00	12.5		78	16	40	1	25		6/14/16 16:39	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/14/16 16:39	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/14/16 16:39	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/14/16 16:39	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/14/16 16:39	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/14/16 16:39	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/14/16 16:39	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/14/16 16:39	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/14/16 16:39	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/14/16 16:39	RJW	
Chloromethane	18.5	5.00	12.5		38	10	26	1	25		6/14/16 16:39	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/14/16 16:39	RJW	





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-7	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-07	Canister ID: #16078	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:41		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 16:39	RJW	
Cyclohexane	31.5	5.00	12.5		110	17	43	1	25	6/14/16 16:39	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/14/16 16:39	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/14/16 16:39	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25	6/14/16 16:39	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 16:39	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25	6/14/16 16:39	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/14/16 16:39	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25	6/14/16 16:39	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/14/16 16:39	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/14/16 16:39	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/14/16 16:39	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25	6/14/16 16:39	RJW	
Propylene	220	5.00	12.5		380	8.6	22	1	25	6/14/16 16:39	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/14/16 16:39	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/14/16 16:39	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/14/16 16:39	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/14/16 16:39	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25	6/14/16 16:39	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 16:39	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 16:39	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/14/16 16:39	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/14/16 16:39	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/14/16 16:39	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/14/16 16:39	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/14/16 16:39	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25	6/14/16 16:39	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	84.2			80-120			6/14/16 16:39					



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-8	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-08	Canister ID: #16079	Receipt Vacuum(in Hg): 4
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:43		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 15:32	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 15:32	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 15:32	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/18/16 15:32	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 15:32	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 15:32	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 15:32	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 15:32	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/18/16 15:32	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 15:32	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 15:32	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/18/16 15:32	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/18/16 15:32	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 15:32	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/18/16 15:32	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 15:32	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 15:32	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/18/16 15:32	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/18/16 15:32	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/18/16 15:32	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/18/16 15:32	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/18/16 15:32	RJW	
Benzene	ND	5.00	12.5		ND	16	40	1	25		6/18/16 15:32	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/18/16 15:32	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/18/16 15:32	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/18/16 15:32	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/18/16 15:32	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/18/16 15:32	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/18/16 15:32	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/18/16 15:32	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/18/16 15:32	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/18/16 15:32	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/18/16 15:32	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 15:32	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-8	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-08	Canister ID: #16079	Receipt Vacuum(in Hg): 4
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:43		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 15:32	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/18/16 15:32	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/18/16 15:32	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/18/16 15:32	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 15:32	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 15:32	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/18/16 15:32	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 15:32	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/18/16 15:32	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/18/16 15:32	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/18/16 15:32	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/18/16 15:32	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 15:32	RJW	
Propylene	ND	5.00	12.5		ND	8.6	22	1	25		6/18/16 15:32	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/18/16 15:32	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/18/16 15:32	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/18/16 15:32	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/18/16 15:32	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25		6/18/16 15:32	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 15:32	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 15:32	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/18/16 15:32	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/18/16 15:32	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/18/16 15:32	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/18/16 15:32	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/18/16 15:32	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/18/16 15:32	RJW	
Surrogate(s)	% Recovery			% Recovery Limits									
4-Bromofluorobenzene	82.2			80-120							6/18/16 15:32		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-10	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-10	Canister ID: #16080	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:49		Flow Controller ID:
Sample Type:		

### EPA TO-15

Analyte	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/14/16 17:21	RJW
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/14/16 17:21	RJW
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/14/16 17:21	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25	6/14/16 17:21	RJW
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/14/16 17:21	RJW
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 17:21	RJW
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 17:21	RJW
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/14/16 17:21	RJW
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25	6/14/16 17:21	RJW
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 17:21	RJW
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 17:21	RJW
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25	6/14/16 17:21	RJW
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25	6/14/16 17:21	RJW
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/14/16 17:21	RJW
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25	6/14/16 17:21	RJW
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 17:21	RJW
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 17:21	RJW
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25	6/14/16 17:21	RJW
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25	6/14/16 17:21	RJW
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25	6/14/16 17:21	RJW
Acrolein	ND	5.00	12.5		ND	11	29	1	25	6/14/16 17:21	RJW
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25	6/14/16 17:21	RJW
Benzene	107	5.00	12.5		340	16	40	1	25	6/14/16 17:21	RJW
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25	6/14/16 17:21	RJW
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25	6/14/16 17:21	RJW
Bromoform	ND	5.00	12.5		ND	52	130	1	25	6/14/16 17:21	RJW
Bromomethane	ND	5.00	12.5		ND	19	49	1	25	6/14/16 17:21	RJW
Carbon Disulfide	23.8	12.5	12.5		74	39	39	1	25	6/14/16 17:21	RJW
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25	6/14/16 17:21	RJW
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25	6/14/16 17:21	RJW
Chloroethane	ND	5.00	12.5		ND	13	33	1	25	6/14/16 17:21	RJW
Chloroform	ND	5.00	12.5		ND	24	61	1	25	6/14/16 17:21	RJW
Chloromethane	ND	5.00	12.5		ND	10	26	1	25	6/14/16 17:21	RJW
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 17:21	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-10	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-10	Canister ID: #16080	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:49		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 17:21	RJW	
Cyclohexane	15.5	5.00	12.5		53	17	43	1	25	6/14/16 17:21	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/14/16 17:21	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/14/16 17:21	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25	6/14/16 17:21	RJW	
Heptane	8.00	5.00	12.5	J	33	20	51	1	25	6/14/16 17:21	RJW	
Hexane	23.8	5.00	12.5		84	18	44	1	25	6/14/16 17:21	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/14/16 17:21	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25	6/14/16 17:21	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/14/16 17:21	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/14/16 17:21	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/14/16 17:21	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25	6/14/16 17:21	RJW	
Propylene	201	5.00	12.5		350	8.6	22	1	25	6/14/16 17:21	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/14/16 17:21	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/14/16 17:21	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/14/16 17:21	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/14/16 17:21	RJW	
Toluene	17.0	5.00	12.5		64	19	47	1	25	6/14/16 17:21	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 17:21	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 17:21	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/14/16 17:21	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/14/16 17:21	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/14/16 17:21	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/14/16 17:21	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/14/16 17:21	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25	6/14/16 17:21	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	87.2			80-120			6/14/16 17:21					



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-11	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-11	Canister ID: #16082	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:51		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	1.00	2.50		ND	5.5	14	1	5	6/14/16 18:08	RJW
1,1,1,2-Tetrachloroethane	ND	1.00	2.50		ND	6.9	17	1	5	6/14/16 18:08	RJW
1,1,2,2-Tetrachloroethane	ND	1.00	2.50		ND	6.9	17	1	5	6/14/16 18:08	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.00	2.50		ND	7.7	19	1	5	6/14/16 18:08	RJW
1,1,2-Trichloroethane	ND	1.00	2.50		ND	5.5	14	1	5	6/14/16 18:08	RJW
1,1-Dichloroethane	ND	1.00	2.50		ND	4.0	10	1	5	6/14/16 18:08	RJW
1,1-Dichloroethylene	ND	1.00	2.50		ND	4.0	9.9	1	5	6/14/16 18:08	RJW
1,2,4-Trimethylbenzene	ND	1.00	2.50		ND	4.9	12	1	5	6/14/16 18:08	RJW
1,2-Dibromoethane (EDB)	ND	1.00	2.50		ND	7.7	19	1	5	6/14/16 18:08	RJW
1,2-Dichlorobenzene	ND	1.00	2.50		ND	6.0	15	1	5	6/14/16 18:08	RJW
1,2-Dichloroethane	ND	1.00	2.50		ND	4.0	10	1	5	6/14/16 18:08	RJW
1,2-Dichloropropane	ND	1.00	2.50		ND	4.6	12	1	5	6/14/16 18:08	RJW
1,2-Dichlorotetrafluoroethane	ND	1.00	2.50		ND	7.0	17	1	5	6/14/16 18:08	RJW
1,3,5-Trimethylbenzene	ND	1.00	2.50		ND	4.9	12	1	5	6/14/16 18:08	RJW
1,3-Butadiene	ND	1.00	2.50		ND	2.2	5.5	1	5	6/14/16 18:08	RJW
1,3-Dichlorobenzene	ND	1.00	2.50		ND	6.0	15	1	5	6/14/16 18:08	RJW
1,4-Dichlorobenzene	ND	1.00	2.50		ND	6.0	15	1	5	6/14/16 18:08	RJW
1,4-Dioxane	ND	1.00	2.50		ND	3.6	9.0	1	5	6/14/16 18:08	RJW
2-Butanone (MEK)	ND	1.00	2.50		ND	2.9	7.4	1	5	6/14/16 18:08	RJW
4-Methyl-2-pentanone (MIBK)	ND	1.00	2.50		ND	11	29	1	5	6/14/16 18:08	RJW
Acrolein	ND	1.00	2.50		ND	2.3	5.7	1	5	6/14/16 18:08	RJW
Allyl chloride	ND	1.00	2.50		ND	3.1	7.8	1	5	6/14/16 18:08	RJW
Benzene	ND	1.00	2.50		ND	3.2	8.0	1	5	6/14/16 18:08	RJW
Benzyl Chloride	ND	1.00	2.50		ND	5.2	13	1	5	6/14/16 18:08	RJW
Bromodichloromethane	ND	1.00	2.50		ND	6.7	17	1	5	6/14/16 18:08	RJW
Bromoform	ND	1.00	2.50		ND	10	26	1	5	6/14/16 18:08	RJW
Bromomethane	ND	1.00	2.50		ND	3.9	9.7	1	5	6/14/16 18:08	RJW
Carbon Disulfide	ND	2.50	2.50		ND	7.8	7.8	1	5	6/14/16 18:08	RJW
Carbon Tetrachloride	ND	1.00	2.50		ND	6.3	16	1	5	6/14/16 18:08	RJW
Chlorobenzene	ND	1.00	2.50		ND	4.6	12	1	5	6/14/16 18:08	RJW
Chloroethane	ND	1.00	2.50		ND	2.6	6.6	1	5	6/14/16 18:08	RJW
Chloroform	ND	1.00	2.50		ND	4.9	12	1	5	6/14/16 18:08	RJW
Chloromethane	ND	1.00	2.50		ND	2.1	5.2	1	5	6/14/16 18:08	RJW
cis-1,2-Dichloroethylene	ND	1.00	2.50		ND	4.0	9.9	1	5	6/14/16 18:08	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-11**  
**Sample ID: 16F0127-11**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:51  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16082  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed		
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	1.00	2.50		ND	4.5	11	1	5	6/14/16 18:08	RJW	
Cyclohexane	3.65	1.00	2.50		13	3.4	8.6	1	5	6/14/16 18:08	RJW	
Dichlorodifluoromethane	ND	2.50	2.50		ND	12	12	1	5	6/14/16 18:08	RJW	
Ethyl acetate	ND	1.00	2.50		ND	3.6	9.0	1	5	6/14/16 18:08	RJW	
Ethylbenzene	ND	1.00	2.50		ND	4.3	11	1	5	6/14/16 18:08	RJW	
Heptane	ND	1.00	2.50		ND	4.1	10	1	5	6/14/16 18:08	RJW	
Hexane	ND	1.00	2.50		ND	3.5	8.8	1	5	6/14/16 18:08	RJW	
Isopropylbenzene	ND	1.00	2.50		ND	4.9	12	1	5	6/14/16 18:08	RJW	
m+p-Xylenes	ND	2.00	5.00		ND	8.7	22	1	5	6/14/16 18:08	RJW	
Methyl methacrylate	ND	1.00	2.50		ND	4.1	10	1	5	6/14/16 18:08	RJW	
Methylene chloride	ND	2.50	5.00		ND	8.7	17	1	5	6/14/16 18:08	RJW	
Methyl-t-butyl ether (MTBE)	ND	1.00	2.50		ND	3.6	9.0	1	5	6/14/16 18:08	RJW	
o-Xylene	ND	1.00	2.50		ND	4.3	11	1	5	6/14/16 18:08	RJW	
Propylene	39.0	1.00	2.50		67	1.7	4.3	1	5	6/14/16 18:08	RJW	
Styrene	ND	1.00	2.50		ND	4.3	11	1	5	6/14/16 18:08	RJW	
TBA	ND	2.50	2.50		ND	7.6	7.6	1	5	6/14/16 18:08	RJW	
Tetrachloroethylene (PCE)	ND	1.00	2.50		ND	6.8	17	1	5	6/14/16 18:08	RJW	
Tetrahydrofuran	ND	1.00	2.50		ND	2.9	7.4	1	5	6/14/16 18:08	RJW	
Toluene	ND	1.00	2.50		ND	3.8	9.4	1	5	6/14/16 18:08	RJW	
trans-1,2-Dichloroethylene	ND	1.00	2.50		ND	4.0	9.9	1	5	6/14/16 18:08	RJW	
trans-1,3-Dichloropropene	ND	1.00	2.50		ND	4.5	11	1	5	6/14/16 18:08	RJW	
Trichloroethylene	ND	1.00	2.50		ND	5.4	13	1	5	6/14/16 18:08	RJW	
Trichlorofluoromethane	ND	2.50	2.50		ND	14	14	1	5	6/14/16 18:08	RJW	
Vinyl acetate	ND	1.00	2.50		ND	3.5	8.8	1	5	6/14/16 18:08	RJW	
Vinyl bromide	ND	1.00	2.50		ND	4.4	11	1	5	6/14/16 18:08	RJW	
Vinyl chloride	ND	1.00	2.50		ND	2.6	6.4	1	5	6/14/16 18:08	RJW	
Xylenes, Total	ND	3.00	7.50		ND	13	33	1	5	6/14/16 18:08	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	98.2			80-120						6/14/16 18:08		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-12	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-12	Canister ID: #16083	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:54		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 20:46	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 20:46	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/15/16 20:46	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/15/16 20:46	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/15/16 20:46	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 20:46	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 20:46	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 20:46	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/15/16 20:46	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 20:46	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/15/16 20:46	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/15/16 20:46	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/15/16 20:46	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/15/16 20:46	RJW	
1,3-Butadiene	11.8	5.00	12.5	J	26	11	28	1	25		6/15/16 20:46	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 20:46	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/15/16 20:46	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/15/16 20:46	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/15/16 20:46	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/15/16 20:46	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/15/16 20:46	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/15/16 20:46	RJW	
Benzene	176	5.00	12.5		560	16	40	1	25		6/15/16 20:46	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/15/16 20:46	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/15/16 20:46	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/15/16 20:46	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/15/16 20:46	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/15/16 20:46	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/15/16 20:46	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/15/16 20:46	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/15/16 20:46	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/15/16 20:46	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/15/16 20:46	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/15/16 20:46	RJW	





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-12**  
**Sample ID: 16F0127-12**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:54  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16083  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/15/16 20:46	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25	6/15/16 20:46	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/15/16 20:46	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/15/16 20:46	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25	6/15/16 20:46	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25	6/15/16 20:46	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25	6/15/16 20:46	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/15/16 20:46	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25	6/15/16 20:46	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/15/16 20:46	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/15/16 20:46	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/15/16 20:46	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25	6/15/16 20:46	RJW	
Propylene	63.2	5.00	12.5		110	8.6	22	1	25	6/15/16 20:46	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/15/16 20:46	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/15/16 20:46	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/15/16 20:46	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/15/16 20:46	RJW	
Toluene	17.5	5.00	12.5		66	19	47	1	25	6/15/16 20:46	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/15/16 20:46	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/15/16 20:46	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/15/16 20:46	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/15/16 20:46	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/15/16 20:46	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/15/16 20:46	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/15/16 20:46	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25	6/15/16 20:46	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	81.0			80-120						6/15/16 20:46		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-13	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-13	Canister ID: #16084	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 10:58		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
1,1,1-Trichloroethane	ND	20.0	50.0		ND	110	270	1	100	6/16/16 17:46	RJW	
1,1,1,2-Tetrachloroethane	ND	20.0	50.0		ND	140	340	1	100	6/16/16 17:46	RJW	
1,1,2,2-Tetrachloroethane	ND	20.0	50.0		ND	140	340	1	100	6/16/16 17:46	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20.0	50.0		ND	150	380	1	100	6/16/16 17:46	RJW	
1,1,2-Trichloroethane	ND	20.0	50.0		ND	110	270	1	100	6/16/16 17:46	RJW	
1,1-Dichloroethane	ND	20.0	50.0		ND	81	200	1	100	6/16/16 17:46	RJW	
1,1-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 17:46	RJW	
1,2,4-Trimethylbenzene	121	20.0	50.0		590	98	250	1	100	6/16/16 17:46	RJW	
1,2-Dibromoethane (EDB)	ND	20.0	50.0		ND	150	380	1	100	6/16/16 17:46	RJW	
1,2-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 17:46	RJW	
1,2-Dichloroethane	ND	20.0	50.0		ND	81	200	1	100	6/16/16 17:46	RJW	
1,2-Dichloropropane	ND	20.0	50.0		ND	92	230	1	100	6/16/16 17:46	RJW	
1,2-Dichlorotetrafluoroethane	ND	20.0	50.0		ND	140	350	1	100	6/16/16 17:46	RJW	
1,3,5-Trimethylbenzene	72.0	20.0	50.0		350	98	250	1	100	6/16/16 17:46	RJW	
1,3-Butadiene	ND	20.0	50.0		ND	44	110	1	100	6/16/16 17:46	RJW	
1,3-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 17:46	RJW	
1,4-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 17:46	RJW	
1,4-Dioxane	ND	20.0	50.0		ND	72	180	1	100	6/16/16 17:46	RJW	
2-Butanone (MEK)	ND	20.0	50.0		ND	59	150	1	100	6/16/16 17:46	RJW	
4-Methyl-2-pentanone (MIBK)	ND	20.0	50.0		ND	230	570	1	100	6/16/16 17:46	RJW	
Acrolein	ND	20.0	50.0		ND	46	110	1	100	6/16/16 17:46	RJW	
Allyl chloride	ND	20.0	50.0		ND	63	160	1	100	6/16/16 17:46	RJW	
Benzene	56.0	20.0	50.0		180	64	160	1	100	6/16/16 17:46	RJW	
Benzyl Chloride	ND	20.0	50.0		ND	100	260	1	100	6/16/16 17:46	RJW	
Bromodichloromethane	ND	20.0	50.0		ND	130	340	1	100	6/16/16 17:46	RJW	
Bromoform	ND	20.0	50.0		ND	210	520	1	100	6/16/16 17:46	RJW	
Bromomethane	ND	20.0	50.0		ND	78	190	1	100	6/16/16 17:46	RJW	
Carbon Disulfide	ND	50.0	50.0		ND	160	160	1	100	6/16/16 17:46	RJW	
Carbon Tetrachloride	ND	20.0	50.0		ND	130	310	1	100	6/16/16 17:46	RJW	
Chlorobenzene	ND	20.0	50.0		ND	92	230	1	100	6/16/16 17:46	RJW	
Chloroethane	ND	20.0	50.0		ND	53	130	1	100	6/16/16 17:46	RJW	
Chloroform	ND	20.0	50.0		ND	98	240	1	100	6/16/16 17:46	RJW	
Chloromethane	ND	20.0	50.0		ND	41	100	1	100	6/16/16 17:46	RJW	
cis-1,2-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 17:46	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-13**  
**Sample ID: 16F0127-13**  
Sample Matrix: Air  
Sampled: 6/3/2016 10:58  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16084  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	20.0	50.0		ND	91	230	1	100	6/16/16 17:46	RJW	
Cyclohexane	ND	20.0	50.0		ND	69	170	1	100	6/16/16 17:46	RJW	
Dichlorodifluoromethane	ND	50.0	50.0		ND	250	250	1	100	6/16/16 17:46	RJW	
Ethyl acetate	ND	20.0	50.0		ND	72	180	1	100	6/16/16 17:46	RJW	
Ethylbenzene	ND	20.0	50.0		ND	87	220	1	100	6/16/16 17:46	RJW	
Heptane	143	20.0	50.0		590	82	200	1	100	6/16/16 17:46	RJW	
Hexane	262	20.0	50.0		920	70	180	1	100	6/16/16 17:46	RJW	
Isopropylbenzene	ND	20.0	50.0		ND	98	250	1	100	6/16/16 17:46	RJW	
m+p-Xylenes	99.0	40.0	100	J	430	170	430	1	100	6/16/16 17:46	RJW	
Methyl methacrylate	ND	20.0	50.0		ND	82	200	1	100	6/16/16 17:46	RJW	
Methylene chloride	ND	50.0	100		ND	170	350	1	100	6/16/16 17:46	RJW	
Methyl-t-butyl ether (MTBE)	ND	20.0	50.0		ND	72	180	1	100	6/16/16 17:46	RJW	
o-Xylene	54.0	20.0	50.0		230	87	220	1	100	6/16/16 17:46	RJW	
Propylene	ND	20.0	50.0		ND	34	86	1	100	6/16/16 17:46	RJW	
Styrene	64.0	20.0	50.0		270	85	210	1	100	6/16/16 17:46	RJW	
TBA	ND	50.0	50.0		ND	150	150	1	100	6/16/16 17:46	RJW	
Tetrachloroethylene (PCE)	ND	20.0	50.0		ND	140	340	1	100	6/16/16 17:46	RJW	
Tetrahydrofuran	ND	20.0	50.0		ND	59	150	1	100	6/16/16 17:46	RJW	
Toluene	80.0	20.0	50.0		300	75	190	1	100	6/16/16 17:46	RJW	
trans-1,2-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 17:46	RJW	
trans-1,3-Dichloropropene	ND	20.0	50.0		ND	91	230	1	100	6/16/16 17:46	RJW	
Trichloroethylene	ND	20.0	50.0		ND	110	270	1	100	6/16/16 17:46	RJW	
Trichlorofluoromethane	ND	50.0	50.0		ND	280	280	1	100	6/16/16 17:46	RJW	
Vinyl acetate	ND	20.0	50.0		ND	70	180	1	100	6/16/16 17:46	RJW	
Vinyl bromide	ND	20.0	50.0		ND	87	220	1	100	6/16/16 17:46	RJW	
Vinyl chloride	ND	20.0	50.0		ND	51	130	1	100	6/16/16 17:46	RJW	
Xylenes, Total	153	60.0	150		660	260	650	1	100	6/16/16 17:46	RJW	
Surrogate(s)	% Recovery				% Recovery Limits							
4-Bromofluorobenzene		335	*	S		80-120				6/16/16 17:46		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-14	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-14	Canister ID: #16085	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:01		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	20.0	50.0		ND	110	270	1	100	6/16/16 19:08	RJW
1,1,1,2-Tetrachloroethane	ND	20.0	50.0		ND	140	340	1	100	6/16/16 19:08	RJW
1,1,2,2-Tetrachloroethane	ND	20.0	50.0		ND	140	340	1	100	6/16/16 19:08	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	20.0	50.0		ND	150	380	1	100	6/16/16 19:08	RJW
1,1,2-Trichloroethane	ND	20.0	50.0		ND	110	270	1	100	6/16/16 19:08	RJW
1,1-Dichloroethane	ND	20.0	50.0		ND	81	200	1	100	6/16/16 19:08	RJW
1,1-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 19:08	RJW
1,2,4-Trimethylbenzene	963	20.0	50.0		4700	98	250	1	100	6/16/16 19:08	RJW
1,2-Dibromoethane (EDB)	ND	20.0	50.0		ND	150	380	1	100	6/16/16 19:08	RJW
1,2-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 19:08	RJW
1,2-Dichloroethane	ND	20.0	50.0		ND	81	200	1	100	6/16/16 19:08	RJW
1,2-Dichloropropane	ND	20.0	50.0		ND	92	230	1	100	6/16/16 19:08	RJW
1,2-Dichlorotetrafluoroethane	ND	20.0	50.0		ND	140	350	1	100	6/16/16 19:08	RJW
1,3,5-Trimethylbenzene	348	20.0	50.0		1700	98	250	1	100	6/16/16 19:08	RJW
1,3-Butadiene	ND	20.0	50.0		ND	44	110	1	100	6/16/16 19:08	RJW
1,3-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 19:08	RJW
1,4-Dichlorobenzene	ND	20.0	50.0		ND	120	300	1	100	6/16/16 19:08	RJW
1,4-Dioxane	ND	20.0	50.0		ND	72	180	1	100	6/16/16 19:08	RJW
2-Butanone (MEK)	ND	20.0	50.0		ND	59	150	1	100	6/16/16 19:08	RJW
4-Methyl-2-pentanone (MIBK)	ND	20.0	50.0		ND	230	570	1	100	6/16/16 19:08	RJW
Acrolein	ND	20.0	50.0		ND	46	110	1	100	6/16/16 19:08	RJW
Allyl chloride	ND	20.0	50.0		ND	63	160	1	100	6/16/16 19:08	RJW
Benzene	138	20.0	50.0		440	64	160	1	100	6/16/16 19:08	RJW
Benzyl Chloride	ND	20.0	50.0		ND	100	260	1	100	6/16/16 19:08	RJW
Bromodichloromethane	ND	20.0	50.0		ND	130	340	1	100	6/16/16 19:08	RJW
Bromoform	ND	20.0	50.0		ND	210	520	1	100	6/16/16 19:08	RJW
Bromomethane	ND	20.0	50.0		ND	78	190	1	100	6/16/16 19:08	RJW
Carbon Disulfide	ND	50.0	50.0		ND	160	160	1	100	6/16/16 19:08	RJW
Carbon Tetrachloride	ND	20.0	50.0		ND	130	310	1	100	6/16/16 19:08	RJW
Chlorobenzene	ND	20.0	50.0		ND	92	230	1	100	6/16/16 19:08	RJW
Chloroethane	ND	20.0	50.0		ND	53	130	1	100	6/16/16 19:08	RJW
Chloroform	ND	20.0	50.0		ND	98	240	1	100	6/16/16 19:08	RJW
Chloromethane	ND	20.0	50.0		ND	41	100	1	100	6/16/16 19:08	RJW
cis-1,2-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 19:08	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-14**  
**Sample ID: 16F0127-14**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:01  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16085  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	20.0	50.0		ND	91	230	1	100	6/16/16 19:08	RJW	
Cyclohexane	ND	20.0	50.0		ND	69	170	1	100	6/16/16 19:08	RJW	
Dichlorodifluoromethane	ND	50.0	50.0		ND	250	250	1	100	6/16/16 19:08	RJW	
Ethyl acetate	ND	20.0	50.0		ND	72	180	1	100	6/16/16 19:08	RJW	
Ethylbenzene	420	20.0	50.0		1800	87	220	1	100	6/16/16 19:08	RJW	
Heptane	ND	20.0	50.0		ND	82	200	1	100	6/16/16 19:08	RJW	
Hexane	ND	20.0	50.0		ND	70	180	1	100	6/16/16 19:08	RJW	
Isopropylbenzene	102	20.0	50.0		500	98	250	1	100	6/16/16 19:08	RJW	
m+p-Xylenes	189	40.0	100		820	170	430	1	100	6/16/16 19:08	RJW	
Methyl methacrylate	ND	20.0	50.0		ND	82	200	1	100	6/16/16 19:08	RJW	
Methylene chloride	ND	50.0	100		ND	170	350	1	100	6/16/16 19:08	RJW	
Methyl-t-butyl ether (MTBE)	ND	20.0	50.0		ND	72	180	1	100	6/16/16 19:08	RJW	
o-Xylene	ND	20.0	50.0		ND	87	220	1	100	6/16/16 19:08	RJW	
Propylene	ND	20.0	50.0		ND	34	86	1	100	6/16/16 19:08	RJW	
Styrene	ND	20.0	50.0		ND	85	210	1	100	6/16/16 19:08	RJW	
TBA	ND	50.0	50.0		ND	150	150	1	100	6/16/16 19:08	RJW	
Tetrachloroethylene (PCE)	ND	20.0	50.0		ND	140	340	1	100	6/16/16 19:08	RJW	
Tetrahydrofuran	ND	20.0	50.0		ND	59	150	1	100	6/16/16 19:08	RJW	
Toluene	ND	20.0	50.0		ND	75	190	1	100	6/16/16 19:08	RJW	
trans-1,2-Dichloroethylene	ND	20.0	50.0		ND	79	200	1	100	6/16/16 19:08	RJW	
trans-1,3-Dichloropropene	ND	20.0	50.0		ND	91	230	1	100	6/16/16 19:08	RJW	
Trichloroethylene	ND	20.0	50.0		ND	110	270	1	100	6/16/16 19:08	RJW	
Trichlorofluoromethane	ND	50.0	50.0		ND	280	280	1	100	6/16/16 19:08	RJW	
Vinyl acetate	ND	20.0	50.0		ND	70	180	1	100	6/16/16 19:08	RJW	
Vinyl bromide	ND	20.0	50.0		ND	87	220	1	100	6/16/16 19:08	RJW	
Vinyl chloride	ND	20.0	50.0		ND	51	130	1	100	6/16/16 19:08	RJW	
Xylenes, Total	189	60.0	150		820	260	650	1	100	6/16/16 19:08	RJW	
Surrogate(s)	% Recovery				% Recovery Limits							
4-Bromofluorobenzene		354	*	S		80-120				6/16/16 19:08		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-15	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-15	Canister ID: #16086	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:06		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	10.0	25.0		ND	55	140	1	50	6/14/16 18:03	RJW
1,1,1,2-Tetrachloroethane	ND	10.0	25.0		ND	69	170	1	50	6/14/16 18:03	RJW
1,1,2,2-Tetrachloroethane	ND	10.0	25.0		ND	69	170	1	50	6/14/16 18:03	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10.0	25.0		ND	77	190	1	50	6/14/16 18:03	RJW
1,1,2-Trichloroethane	ND	10.0	25.0		ND	55	140	1	50	6/14/16 18:03	RJW
1,1-Dichloroethane	ND	10.0	25.0		ND	40	100	1	50	6/14/16 18:03	RJW
1,1-Dichloroethylene	ND	10.0	25.0		ND	40	99	1	50	6/14/16 18:03	RJW
1,2,4-Trimethylbenzene	462	10.0	25.0		2300	49	120	1	50	6/14/16 18:03	RJW
1,2-Dibromoethane (EDB)	ND	10.0	25.0		ND	77	190	1	50	6/14/16 18:03	RJW
1,2-Dichlorobenzene	ND	10.0	25.0		ND	60	150	1	50	6/14/16 18:03	RJW
1,2-Dichloroethane	ND	10.0	25.0		ND	40	100	1	50	6/14/16 18:03	RJW
1,2-Dichloropropane	ND	10.0	25.0		ND	46	120	1	50	6/14/16 18:03	RJW
1,2-Dichlorotetrafluoroethane	ND	10.0	25.0		ND	70	170	1	50	6/14/16 18:03	RJW
1,3,5-Trimethylbenzene	170	10.0	25.0		840	49	120	1	50	6/14/16 18:03	RJW
1,3-Butadiene	ND	10.0	25.0		ND	22	55	1	50	6/14/16 18:03	RJW
1,3-Dichlorobenzene	ND	10.0	25.0		ND	60	150	1	50	6/14/16 18:03	RJW
1,4-Dichlorobenzene	ND	10.0	25.0		ND	60	150	1	50	6/14/16 18:03	RJW
1,4-Dioxane	ND	10.0	25.0		ND	36	90	1	50	6/14/16 18:03	RJW
2-Butanone (MEK)	ND	10.0	25.0		ND	29	74	1	50	6/14/16 18:03	RJW
4-Methyl-2-pentanone (MIBK)	ND	10.0	25.0		ND	110	290	1	50	6/14/16 18:03	RJW
Acrolein	ND	10.0	25.0		ND	23	57	1	50	6/14/16 18:03	RJW
Allyl chloride	ND	10.0	25.0		ND	31	78	1	50	6/14/16 18:03	RJW
Benzene	248	10.0	25.0		790	32	80	1	50	6/14/16 18:03	RJW
Benzyl Chloride	ND	10.0	25.0		ND	52	130	1	50	6/14/16 18:03	RJW
Bromodichloromethane	ND	10.0	25.0		ND	67	170	1	50	6/14/16 18:03	RJW
Bromoform	ND	10.0	25.0		ND	100	260	1	50	6/14/16 18:03	RJW
Bromomethane	ND	10.0	25.0		ND	39	97	1	50	6/14/16 18:03	RJW
Carbon Disulfide	ND	25.0	25.0		ND	78	78	1	50	6/14/16 18:03	RJW
Carbon Tetrachloride	ND	10.0	25.0		ND	63	160	1	50	6/14/16 18:03	RJW
Chlorobenzene	ND	10.0	25.0		ND	46	120	1	50	6/14/16 18:03	RJW
Chloroethane	ND	10.0	25.0		ND	26	66	1	50	6/14/16 18:03	RJW
Chloroform	ND	10.0	25.0		ND	49	120	1	50	6/14/16 18:03	RJW
Chloromethane	ND	10.0	25.0		ND	21	52	1	50	6/14/16 18:03	RJW
cis-1,2-Dichloroethylene	ND	10.0	25.0		ND	40	99	1	50	6/14/16 18:03	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-15**  
**Sample ID: 16F0127-15**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:06  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16086  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	10.0	25.0		ND	45	110	1	50		6/14/16 18:03	RJW	
Cyclohexane	ND	10.0	25.0		ND	34	86	1	50		6/14/16 18:03	RJW	
Dichlorodifluoromethane	ND	25.0	25.0		ND	120	120	1	50		6/14/16 18:03	RJW	
Ethyl acetate	ND	10.0	25.0		ND	36	90	1	50		6/14/16 18:03	RJW	
Ethylbenzene	76.5	10.0	25.0		330	43	110	1	50		6/14/16 18:03	RJW	
Heptane	ND	10.0	25.0		ND	41	100	1	50		6/14/16 18:03	RJW	
Hexane	ND	10.0	25.0		ND	35	88	1	50		6/14/16 18:03	RJW	
Isopropylbenzene	47.0	10.0	25.0		230	49	120	1	50		6/14/16 18:03	RJW	
m+p-Xylenes	62.5	20.0	50.0		270	87	220	1	50		6/14/16 18:03	RJW	
Methyl methacrylate	ND	10.0	25.0		ND	41	100	1	50		6/14/16 18:03	RJW	
Methylene chloride	ND	25.0	50.0		ND	87	170	1	50		6/14/16 18:03	RJW	
Methyl-t-butyl ether (MTBE)	ND	10.0	25.0		ND	36	90	1	50		6/14/16 18:03	RJW	
Naphthalene	345	12.5	31.2		1800	66	160	1	62.5		6/20/16 15:29	RJW	
o-Xylene	ND	10.0	25.0		ND	43	110	1	50		6/14/16 18:03	RJW	
Propylene	33.0	10.0	25.0		57	17	43	1	50		6/14/16 18:03	RJW	
Styrene	ND	10.0	25.0		ND	43	110	1	50		6/14/16 18:03	RJW	
TBA	ND	25.0	25.0		ND	76	76	1	50		6/14/16 18:03	RJW	
Tetrachloroethylene (PCE)	ND	10.0	25.0		ND	68	170	1	50		6/14/16 18:03	RJW	
Tetrahydrofuran	ND	10.0	25.0		ND	29	74	1	50		6/14/16 18:03	RJW	
Toluene	90.0	10.0	25.0		340	38	94	1	50		6/14/16 18:03	RJW	
trans-1,2-Dichloroethylene	ND	10.0	25.0		ND	40	99	1	50		6/14/16 18:03	RJW	
trans-1,3-Dichloropropene	ND	10.0	25.0		ND	45	110	1	50		6/14/16 18:03	RJW	
Trichloroethylene	ND	10.0	25.0		ND	54	130	1	50		6/14/16 18:03	RJW	
Trichlorofluoromethane	ND	25.0	25.0		ND	140	140	1	50		6/14/16 18:03	RJW	
Vinyl acetate	ND	10.0	25.0		ND	35	88	1	50		6/14/16 18:03	RJW	
Vinyl bromide	ND	10.0	25.0		ND	44	110	1	50		6/14/16 18:03	RJW	
Vinyl chloride	ND	10.0	25.0		ND	26	64	1	50		6/14/16 18:03	RJW	
Xylenes, Total	62.5	30.0	75.0	J	270	130	330	1	50		6/14/16 18:03	RJW	
Surrogate(s)	% Recovery				% Recovery Limits								
4-Bromofluorobenzene	99.6				80-120						6/20/16 15:29		
4-Bromofluorobenzene	92.8				80-120						6/14/16 18:03		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-16	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-16	Canister ID: #16045	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:03		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/14/16 18:44	RJW
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/14/16 18:44	RJW
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/14/16 18:44	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25	6/14/16 18:44	RJW
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/14/16 18:44	RJW
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 18:44	RJW
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 18:44	RJW
1,2,4-Trimethylbenzene	1480	50.0	125		7300	250	610	1	250	6/16/16 15:11	RJW
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25	6/14/16 18:44	RJW
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 18:44	RJW
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 18:44	RJW
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25	6/14/16 18:44	RJW
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25	6/14/16 18:44	RJW
1,3,5-Trimethylbenzene	738	50.0	125		3600	250	610	1	250	6/16/16 15:11	RJW
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25	6/14/16 18:44	RJW
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 18:44	RJW
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/14/16 18:44	RJW
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25	6/14/16 18:44	RJW
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25	6/14/16 18:44	RJW
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25	6/14/16 18:44	RJW
Acrolein	ND	5.00	12.5		ND	11	29	1	25	6/14/16 18:44	RJW
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25	6/14/16 18:44	RJW
Benzene	780	50.0	125		2500	160	400	1	250	6/16/16 15:11	RJW
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25	6/14/16 18:44	RJW
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25	6/14/16 18:44	RJW
Bromoform	ND	5.00	12.5		ND	52	130	1	25	6/14/16 18:44	RJW
Bromomethane	ND	5.00	12.5		ND	19	49	1	25	6/14/16 18:44	RJW
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25	6/14/16 18:44	RJW
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25	6/14/16 18:44	RJW
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25	6/14/16 18:44	RJW
Chloroethane	ND	5.00	12.5		ND	13	33	1	25	6/14/16 18:44	RJW
Chloroform	ND	5.00	12.5		ND	24	61	1	25	6/14/16 18:44	RJW
Chloromethane	ND	5.00	12.5		ND	10	26	1	25	6/14/16 18:44	RJW
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 18:44	RJW





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-16**  
**Sample ID: 16F0127-16**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:03  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16045  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 18:44	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25	6/14/16 18:44	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/14/16 18:44	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/14/16 18:44	RJW	
Ethylbenzene	1140	50.0	125		4900	220	540	1	250	6/16/16 15:11	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25	6/14/16 18:44	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25	6/14/16 18:44	RJW	
Isopropylbenzene	228	5.00	12.5		1100	25	61	1	25	6/14/16 18:44	RJW	
m+p-Xylenes	2150	100	250		9300	430	1100	1	250	6/16/16 15:11	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/14/16 18:44	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/14/16 18:44	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/14/16 18:44	RJW	
Naphthalene	1200	50.0	125		6300	260	660	1	250	6/16/16 15:11	RJW	
o-Xylene	1200	50.0	125		5200	220	540	1	250	6/16/16 15:11	RJW	
Propylene	66.0	5.00	12.5		110	8.6	22	1	25	6/14/16 18:44	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/14/16 18:44	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/14/16 18:44	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/14/16 18:44	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/14/16 18:44	RJW	
Toluene	1320	50.0	125		5000	190	470	1	250	6/16/16 15:11	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/14/16 18:44	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/14/16 18:44	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/14/16 18:44	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/14/16 18:44	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/14/16 18:44	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/14/16 18:44	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/14/16 18:44	RJW	
Xylenes, Total	3340	150	375		15000	650	1600	1	250	6/16/16 15:11	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	92.0			80-120			6/16/16 15:11					
4-Bromofluorobenzene	115			80-120			6/14/16 18:44					



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-17	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-17	Canister ID: #16173	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:09		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 16:55	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 16:55	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 16:55	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/18/16 16:55	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 16:55	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 16:55	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 16:55	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 16:55	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/18/16 16:55	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 16:55	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 16:55	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/18/16 16:55	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/18/16 16:55	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 16:55	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/18/16 16:55	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 16:55	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 16:55	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/18/16 16:55	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/18/16 16:55	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/18/16 16:55	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/18/16 16:55	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/18/16 16:55	RJW	
Benzene	ND	5.00	12.5		ND	16	40	1	25		6/18/16 16:55	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/18/16 16:55	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/18/16 16:55	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/18/16 16:55	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/18/16 16:55	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/18/16 16:55	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/18/16 16:55	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/18/16 16:55	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/18/16 16:55	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/18/16 16:55	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/18/16 16:55	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 16:55	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-17**  
**Sample ID: 16F0127-17**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:09  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16173  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 16:55	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/18/16 16:55	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/18/16 16:55	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/18/16 16:55	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 16:55	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 16:55	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/18/16 16:55	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 16:55	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/18/16 16:55	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/18/16 16:55	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/18/16 16:55	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/18/16 16:55	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/18/16 16:55	RJW	
Propylene	ND	5.00	12.5		ND	8.6	22	1	25		6/18/16 16:55	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/18/16 16:55	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/18/16 16:55	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/18/16 16:55	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/18/16 16:55	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25		6/18/16 16:55	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 16:55	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/18/16 16:55	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/18/16 16:55	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/18/16 16:55	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/18/16 16:55	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/18/16 16:55	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/18/16 16:55	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/18/16 16:55	RJW	
Surrogate(s)	% Recovery			% Recovery Limits									
4-Bromofluorobenzene	82.8			80-120			6/18/16 16:55						



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
<b>Field Sample #: VP-18</b>	Sub Description/Location:	Final Vacuum(in Hg):
<b>Sample ID: 16F0127-18</b>	Canister ID: #16166	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:11		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15										
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst
	Results	MDL	LOQ		Results	MDL	LOQ				
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/16/16 19:50	RJW
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/16/16 19:50	RJW
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/16/16 19:50	RJW
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25	6/16/16 19:50	RJW
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/16/16 19:50	RJW
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/16/16 19:50	RJW
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/16/16 19:50	RJW
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/16/16 19:50	RJW
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25	6/16/16 19:50	RJW
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/16/16 19:50	RJW
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/16/16 19:50	RJW
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25	6/16/16 19:50	RJW
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25	6/16/16 19:50	RJW
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/16/16 19:50	RJW
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25	6/16/16 19:50	RJW
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/16/16 19:50	RJW
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/16/16 19:50	RJW
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25	6/16/16 19:50	RJW
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25	6/16/16 19:50	RJW
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25	6/16/16 19:50	RJW
Acrolein	ND	5.00	12.5		ND	11	29	1	25	6/16/16 19:50	RJW
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25	6/16/16 19:50	RJW
Benzene	14.5	5.00	12.5		46	16	40	1	25	6/16/16 19:50	RJW
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25	6/16/16 19:50	RJW
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25	6/16/16 19:50	RJW
Bromoform	ND	5.00	12.5		ND	52	130	1	25	6/16/16 19:50	RJW
Bromomethane	ND	5.00	12.5		ND	19	49	1	25	6/16/16 19:50	RJW
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25	6/16/16 19:50	RJW
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25	6/16/16 19:50	RJW
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25	6/16/16 19:50	RJW
Chloroethane	ND	5.00	12.5		ND	13	33	1	25	6/16/16 19:50	RJW
Chloroform	ND	5.00	12.5		ND	24	61	1	25	6/16/16 19:50	RJW
Chloromethane	ND	5.00	12.5		ND	10	26	1	25	6/16/16 19:50	RJW
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/16/16 19:50	RJW



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-18**  
**Sample ID: 16F0127-18**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:11  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16166  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/16/16 19:50	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25		6/16/16 19:50	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25		6/16/16 19:50	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25		6/16/16 19:50	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25		6/16/16 19:50	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25		6/16/16 19:50	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25		6/16/16 19:50	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/16/16 19:50	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25		6/16/16 19:50	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25		6/16/16 19:50	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25		6/16/16 19:50	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25		6/16/16 19:50	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25		6/16/16 19:50	RJW	
Propylene	25.0	5.00	12.5		43	8.6	22	1	25		6/16/16 19:50	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25		6/16/16 19:50	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25		6/16/16 19:50	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25		6/16/16 19:50	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25		6/16/16 19:50	RJW	
Toluene	11.8	5.00	12.5	J	44	19	47	1	25		6/16/16 19:50	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/16/16 19:50	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25		6/16/16 19:50	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25		6/16/16 19:50	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25		6/16/16 19:50	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25		6/16/16 19:50	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25		6/16/16 19:50	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25		6/16/16 19:50	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25		6/16/16 19:50	RJW	
Surrogate(s)	% Recovery				% Recovery Limits								
4-Bromofluorobenzene		337	*	S		80-120					6/16/16 19:50		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:	Sample Description/Location:	Initial Vacuum(in Hg): 30
Field Sample #: VP-19	Sub Description/Location:	Final Vacuum(in Hg):
Sample ID: 16F0127-19	Canister ID: #16170	Receipt Vacuum(in Hg): 2
Sample Matrix: Air	Canister Size: 1.4 L	Flow Controller Type:
Sampled: 6/3/2016 11:14		Flow Controller ID:
Sample Type:		

Analyte	EPA TO-15											Date/Time Analyzed	Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF				
	Results	MDL	LOQ		Results	MDL	LOQ						
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 17:37	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 17:37	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25		6/18/16 17:37	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25		6/18/16 17:37	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25		6/18/16 17:37	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 17:37	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 17:37	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 17:37	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25		6/18/16 17:37	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 17:37	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25		6/18/16 17:37	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25		6/18/16 17:37	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25		6/18/16 17:37	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25		6/18/16 17:37	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25		6/18/16 17:37	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 17:37	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25		6/18/16 17:37	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25		6/18/16 17:37	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25		6/18/16 17:37	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25		6/18/16 17:37	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25		6/18/16 17:37	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25		6/18/16 17:37	RJW	
Benzene	456	20.0	50.0		1500	64	160	1	100		6/20/16 14:02	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25		6/18/16 17:37	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25		6/18/16 17:37	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25		6/18/16 17:37	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25		6/18/16 17:37	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25		6/18/16 17:37	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25		6/18/16 17:37	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25		6/18/16 17:37	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25		6/18/16 17:37	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25		6/18/16 17:37	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25		6/18/16 17:37	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25		6/18/16 17:37	RJW	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-19**  
**Sample ID: 16F0127-19**  
Sample Matrix: Air  
Sampled: 6/3/2016 11:14  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: #16170  
Canister Size: 1.4 L

Initial Vacuum(in Hg): 30  
Final Vacuum(in Hg):  
Receipt Vacuum(in Hg): 2  
Flow Controller Type:  
Flow Controller ID:

Analyte	EPA TO-15											Analyst
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed		
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/18/16 17:37	RJW	
Cyclohexane	16.5	5.00	12.5		57	17	43	1	25	6/18/16 17:37	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/18/16 17:37	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/18/16 17:37	RJW	
Ethylbenzene	43.2	5.00	12.5		190	22	54	1	25	6/18/16 17:37	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25	6/18/16 17:37	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25	6/18/16 17:37	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/18/16 17:37	RJW	
m+p-Xylenes	51.5	10.0	25.0		220	43	110	1	25	6/18/16 17:37	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/18/16 17:37	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/18/16 17:37	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/18/16 17:37	RJW	
o-Xylene	15.5	5.00	12.5		67	22	54	1	25	6/18/16 17:37	RJW	
Propylene	57.2	5.00	12.5		99	8.6	22	1	25	6/18/16 17:37	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/18/16 17:37	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/18/16 17:37	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/18/16 17:37	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/18/16 17:37	RJW	
Toluene	192	5.00	12.5		720	19	47	1	25	6/18/16 17:37	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/18/16 17:37	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/18/16 17:37	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/18/16 17:37	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/18/16 17:37	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/18/16 17:37	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/18/16 17:37	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/18/16 17:37	RJW	
Xylenes, Total	67.0	15.0	37.5		290	65	160	1	25	6/18/16 17:37	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	118			80-120			6/18/16 17:37					
4-Bromofluorobenzene	92.4			80-120			6/20/16 14:02					



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
<b>Volatile Organic Compounds by GCMS</b>			<b>Preparation Method:</b>	<b>No Prep VOC</b>	
16F0127-15RE1	6.40 mL / 400 mL	EPA TO-15	BZF0197	SZF0520	AF60076
16F0127-19RE1	4.00 mL / 400 mL	EPA TO-15	BZF0197	SZF0520	AF60076
16F0127-07	16.0 mL / 400 mL	EPA TO-15	BZF0362	SZF0395	AF60052
16F0127-10	16.0 mL / 400 mL	EPA TO-15	BZF0362	SZF0395	AF60052
16F0127-15	8.00 mL / 400 mL	EPA TO-15	BZF0362	SZF0395	AF60052
16F0127-16	16.0 mL / 400 mL	EPA TO-15	BZF0362	SZF0395	AF60052
16F0127-01	60.0 mL / 400 mL	EPA TO-15	BZF0365	SZF0397	AF60032
16F0127-04	320 mL / 400 mL	EPA TO-15	BZF0365	SZF0397	AF60032
16F0127-05	160 mL / 400 mL	EPA TO-15	BZF0365	SZF0397	AF60032
16F0127-11	80.0 mL / 400 mL	EPA TO-15	BZF0365	SZF0397	AF60032
16F0127-03	16.0 mL / 400 mL	EPA TO-15	BZF0422	SZF0491	AF60052
16F0127-06	16.0 mL / 400 mL	EPA TO-15	BZF0422	SZF0491	AF60052
16F0127-12	16.0 mL / 400 mL	EPA TO-15	BZF0422	SZF0491	AF60052
16F0127-13	4.00 mL / 400 mL	EPA TO-15	BZF0424	SZF0492	AF60052
16F0127-14	4.00 mL / 400 mL	EPA TO-15	BZF0424	SZF0492	AF60052
16F0127-16RE1	1.60 mL / 400 mL	EPA TO-15	BZF0424	SZF0492	AF60052
16F0127-18	16.0 mL / 400 mL	EPA TO-15	BZF0424	SZF0492	AF60052
16F0127-02	16.0 mL / 400 mL	EPA TO-15	BZF0457	SZF0496	AF60076
16F0127-08	16.0 mL / 400 mL	EPA TO-15	BZF0457	SZF0496	AF60076
16F0127-17	16.0 mL / 400 mL	EPA TO-15	BZF0457	SZF0496	AF60076
16F0127-19	16.0 mL / 400 mL	EPA TO-15	BZF0457	SZF0496	AF60076
16F0127-01RE1	3.20 mL / 400 mL	EPA TO-15	BZF0488	SZF0517	AF60080





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7834 Forest Hill Ave. Suite 7  
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Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0197 - No Prep VOC

##### Blank (BZF0197-BLK1)

Prepared & Analyzed: 06/20/2016

1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,3-Butadiene	<0.20 ppbv	0.50	ppbv
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dioxane	<0.20 ppbv	0.50	ppbv
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv
Acrolein	<0.20 ppbv	0.50	ppbv
Allyl chloride	<0.20 ppbv	0.50	ppbv
Benzene	<0.20 ppbv	0.50	ppbv
Benzyl Chloride	<0.20 ppbv	0.50	ppbv
Bromodichloromethane	<0.20 ppbv	0.50	ppbv
Bromoform	<0.20 ppbv	0.50	ppbv
Bromomethane	<0.20 ppbv	0.50	ppbv
Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv



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## Certificate of Analysis

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0197 - No Prep VOC

##### Blank (BZF0197-BLK1)

Prepared & Analyzed: 06/20/2016

cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Cyclohexane	<0.20 ppbv	0.50	ppbv
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv
Ethyl acetate	<0.20 ppbv	0.50	ppbv
Ethylbenzene	<0.20 ppbv	0.50	ppbv
Heptane	<0.20 ppbv	0.50	ppbv
Hexane	<0.20 ppbv	0.50	ppbv
Isopropylbenzene	<0.20 ppbv	0.50	ppbv
m+p-Xylenes	<0.40 ppbv	1.00	ppbv
Methyl methacrylate	<0.20 ppbv	0.50	ppbv
Methylene chloride	<0.50 ppbv	1.00	ppbv
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv
o-Xylene	<0.20 ppbv	0.50	ppbv
Propylene	<0.20 ppbv	0.50	ppbv
Styrene	<0.20 ppbv	0.50	ppbv
TBA	<0.50 ppbv	0.50	ppbv
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv
Toluene	<0.20 ppbv	0.50	ppbv
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Trichloroethylene	<0.20 ppbv	0.50	ppbv
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv
Vinyl acetate	<0.20 ppbv	0.50	ppbv
Vinyl bromide	<0.20 ppbv	0.50	ppbv
Vinyl chloride	<0.20 ppbv	0.50	ppbv
Xylenes, Total	<0.60 ppbv	1.50	ppbv

Surr: 4-Bromofluorobenzene 4.42 ppbv 5.00 88.4 80-120



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Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0197 - No Prep VOC

##### LCS (BZF0197-BS1)

Prepared & Analyzed: 06/20/2016

1,1,1-Trichloroethane	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
1,1,2,2-Tetrachloroethane	5.96 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130		
1,1,2-Trichloroethane	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
1,1-Dichloroethane	5.14 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
1,1-Dichloroethylene	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130		
1,2,4-Trimethylbenzene	6.00 ppbv	0.5	ppbv	5.00	ppbv	120	70-130		
1,2-Dibromoethane (EDB)	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
1,2-Dichlorobenzene	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130		
1,2-Dichloroethane	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
1,2-Dichloropropane	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,2-Dichlorotetrafluoroethane	5.01 ppbv	0.5	ppbv	5.00	ppbv	100	70-130		
1,3,5-Trimethylbenzene	5.99 ppbv	0.5	ppbv	5.00	ppbv	120	70-130		
1,3-Butadiene	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
1,3-Dichlorobenzene	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130		
1,4-Dichlorobenzene	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130		
1,4-Dioxane	6.44 ppbv	0.5	ppbv	5.00	ppbv	129	70-130		
2-Butanone (MEK)	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130		
4-Methyl-2-pentanone (MIBK)	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Allyl chloride	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
Benzene	5.45 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Benzyl Chloride	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130		
Bromodichloromethane	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Bromoform	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Bromomethane	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130		
Carbon Disulfide	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130		
Carbon Tetrachloride	5.21 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Chlorobenzene	5.24 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Chloroethane	4.52 ppbv	0.5	ppbv	5.00	ppbv	90.4	70-130		
Chloroform	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Chloromethane	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130		
cis-1,2-Dichloroethylene	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
cis-1,3-Dichloropropene	5.69 ppbv	0.5	ppbv	5.00	ppbv	114	70-130		
Cyclohexane	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Dichlorodifluoromethane	5.03 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Ethyl acetate	4.19 ppbv	0.5	ppbv	5.00	ppbv	83.8	70-130		
Ethylbenzene	5.90 ppbv	0.5	ppbv	5.00	ppbv	118	70-130		



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0197 - No Prep VOC

##### LCS (BZF0197-BS1)

Prepared & Analyzed: 06/20/2016

Heptane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Hexane	5.24 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Isopropylbenzene	6.07 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	11.8 ppbv	1	ppbv	10.0	ppbv	118	70-130		
Methylene chloride	4.72 ppbv	1.00	ppbv		ppbv		70-130		
Methyl-t-butyl ether (MTBE)	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
o-Xylene	6.09 ppbv	0.5	ppbv	5.00	ppbv	122	70-130		
Propylene	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130		
Styrene	6.04 ppbv	0.5	ppbv	5.00	ppbv	121	70-130		
Tetrachloroethylene (PCE)	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Tetrahydrofuran	6.30 ppbv	0.5	ppbv	5.00	ppbv	126	70-130		
Toluene	5.67 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
trans-1,2-Dichloroethylene	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
trans-1,3-Dichloropropene	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Trichloroethylene	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
Trichlorofluoromethane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Vinyl acetate	4.96 ppbv	0.5	ppbv	5.00	ppbv	99.2	70-130		
Vinyl bromide	4.70 ppbv	0.5	ppbv	5.00	ppbv	94.0	70-130		
Vinyl chloride	5.16 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Xylenes, Total	17.9 ppbv	1.50	ppbv		ppbv		70-130		

Surr: 4-Bromofluorobenzene 5.22 ppbv 5.00 ppbv 104 70-130

##### LCS Dup (BZF0197-BSD1)

Prepared & Analyzed: 06/20/2016

1,1,1-Trichloroethane	5.61 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	0.895	25
1,1,2,2-Tetrachloroethane	5.99 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	0.502	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130	1.43	25
1,1,2-Trichloroethane	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.63	25
1,1-Dichloroethane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.775	25
1,1-Dichloroethylene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130	2.09	25
1,2,4-Trimethylbenzene	6.10 ppbv	0.5	ppbv	5.00	ppbv	122	70-130	1.65	25
1,2-Dibromoethane (EDB)	5.54 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	0.907	25
1,2-Dichlorobenzene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	2.51	25
1,2-Dichloroethane	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.186	25
1,2-Dichloropropane	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	0.00	25
1,2-Dichlorotetrafluoroethane	5.00 ppbv	0.5	ppbv	5.00	ppbv	100	70-130	0.200	25
1,3,5-Trimethylbenzene	6.04 ppbv	0.5	ppbv	5.00	ppbv	121	70-130	0.831	25



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Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0197 - No Prep VOC

##### LCS Dup (BZF0197-BSD1)

Prepared & Analyzed: 06/20/2016

1,3-Butadiene	4.49 ppbv	0.5	ppbv	5.00	ppbv	89.8	70-130	2.20	25
1,3-Dichlorobenzene	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	1.24	25
1,4-Dichlorobenzene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	2.51	25
2-Butanone (MEK)	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	3.18	25
4-Methyl-2-pentanone (MIBK)	5.25 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	1.32	25
Allyl chloride	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130	1.51	25
Benzene	5.55 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.82	25
Benzyl Chloride	5.70 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	1.77	25
Bromodichloromethane	5.13 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	1.57	25
Bromoform	5.51 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	0.729	25
Bromomethane	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130	2.06	25
Carbon Disulfide	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130	4.16	25
Carbon Tetrachloride	5.35 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	2.65	25
Chlorobenzene	5.21 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.574	25
Chloroethane	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130	4.12	25
Chloroform	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	5.43	25
Chloromethane	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	1.50	25
cis-1,2-Dichloroethylene	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130	3.74	25
cis-1,3-Dichloropropene	5.59 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	1.77	25
Cyclohexane	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	0.966	25
Dichlorodifluoromethane	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	2.36	25
Ethyl acetate	3.99 ppbv	0.5	ppbv	5.00	ppbv	79.8	70-130	4.89	25
Ethylbenzene	5.88 ppbv	0.5	ppbv	5.00	ppbv	118	70-130	0.340	25
Heptane	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	1.14	25
Hexane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.191	25
Isopropylbenzene	6.11 ppbv	0.50	ppbv		ppbv		70-130	0.657	25
m+p-Xylenes	11.8 ppbv	1	ppbv	10.0	ppbv	118	70-130	0.0849	25
Methylene chloride	4.70 ppbv	1.00	ppbv		ppbv		70-130	0.425	25
Methyl-t-butyl ether (MTBE)	4.96 ppbv	0.5	ppbv	5.00	ppbv	99.2	70-130	3.76	25
o-Xylene	6.03 ppbv	0.5	ppbv	5.00	ppbv	121	70-130	0.990	25
Propylene	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	0.203	25
Styrene	6.01 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	0.498	25
Tetrachloroethylene (PCE)	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	1.08	25
Tetrahydrofuran	6.33 ppbv	0.5	ppbv	5.00	ppbv	127	70-130	0.475	25
Toluene	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	0.531	25
trans-1,2-Dichloroethylene	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130	3.64	25
trans-1,3-Dichloropropene	5.48 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	2.03	25



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	
<b>Batch BZF0197 - No Prep VOC</b>									
<b>LCS Dup (BZF0197-BSD1)</b>					Prepared & Analyzed: 06/20/2016				
Trichloroethylene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.43	25
Trichlorofluoromethane	5.07 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	2.92	25
Vinyl acetate	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130	0.202	25
Vinyl bromide	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130	0.213	25
Vinyl chloride	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	2.35	25
Xylenes, Total	17.8 ppbv	1.50	ppbv		ppbv		70-130	0.392	25
<i>Surr: 4-Bromofluorobenzene</i>	<i>5.29</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>106</i>	<i>70-130</i>		

### Batch BZF0362 - No Prep VOC

<b>Blank (BZF0362-BLK1)</b>				Prepared & Analyzed: 06/14/2016					
1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv						
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv						
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv						
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv						
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv						
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv						
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv						
1,3-Butadiene	<0.20 ppbv	0.50	ppbv						
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,4-Dioxane	<0.20 ppbv	0.50	ppbv						
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv						
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv						
Acrolein	<0.20 ppbv	0.50	ppbv						
Allyl chloride	<0.20 ppbv	0.50	ppbv						
Benzene	<0.20 ppbv	0.50	ppbv						
Benzyl Chloride	<0.20 ppbv	0.50	ppbv						
Bromodichloromethane	<0.20 ppbv	0.50	ppbv						
Bromoform	<0.20 ppbv	0.50	ppbv						



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0362 - No Prep VOC

##### Blank (BZF0362-BLK1)

Prepared & Analyzed: 06/14/2016

Bromomethane	<0.20 ppbv	0.50	ppbv						
Carbon Disulfide	<0.50 ppbv	0.50	ppbv						
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv						
Chlorobenzene	<0.20 ppbv	0.50	ppbv						
Chloroethane	<0.20 ppbv	0.50	ppbv						
Chloroform	<0.20 ppbv	0.50	ppbv						
Chloromethane	<0.20 ppbv	0.50	ppbv						
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Cyclohexane	<0.20 ppbv	0.50	ppbv						
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv						
Ethyl acetate	<0.20 ppbv	0.50	ppbv						
Ethylbenzene	<0.20 ppbv	0.50	ppbv						
Heptane	<0.20 ppbv	0.50	ppbv						
Hexane	<0.20 ppbv	0.50	ppbv						
Isopropylbenzene	<0.20 ppbv	0.50	ppbv						
m+p-Xylenes	<0.40 ppbv	1.00	ppbv						
Methyl methacrylate	<0.20 ppbv	0.50	ppbv						
Methylene chloride	<0.50 ppbv	1.00	ppbv						
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv						
o-Xylene	<0.20 ppbv	0.50	ppbv						
Propylene	<0.20 ppbv	0.50	ppbv						
Styrene	<0.20 ppbv	0.50	ppbv						
TBA	<0.50 ppbv	0.50	ppbv						
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv						
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv						
Toluene	<0.20 ppbv	0.50	ppbv						
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Trichloroethylene	<0.20 ppbv	0.50	ppbv						
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv						
Vinyl acetate	<0.20 ppbv	0.50	ppbv						
Vinyl bromide	<0.20 ppbv	0.50	ppbv						
Vinyl chloride	<0.20 ppbv	0.50	ppbv						
Xylenes, Total	<0.60 ppbv	1.50	ppbv						

Surr: 4-Bromofluorobenzene 4.22 ppbv 5.00 84.4 80-120



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## Certificate of Analysis

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0362 - No Prep VOC

##### LCS (BZF0362-BS1)

Prepared & Analyzed: 06/14/2016

1,1,1-Trichloroethane	5.35 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
1,1,1,2-Tetrachloroethane	0.25 ppbv	0.50	ppbv		ppbv		70-130		
1,1,2,2-Tetrachloroethane	5.73 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
1,1,2-Trichloroethane	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,1-Dichloroethane	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130		
1,1-Dichloroethylene	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130		
1,2,4-Trimethylbenzene	5.95 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
1,2-Dibromoethane (EDB)	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
1,2-Dichlorobenzene	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
1,2-Dichloroethane	5.02 ppbv	0.5	ppbv	5.00	ppbv	100	70-130		
1,2-Dichloropropane	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
1,2-Dichlorotetrafluoroethane	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130		
1,3,5-Trimethylbenzene	5.73 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
1,3-Butadiene	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130		
1,3-Dichlorobenzene	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130		
1,4-Dichlorobenzene	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
1,4-Dioxane	6.44 ppbv	0.5	ppbv	5.00	ppbv	129	70-130		
2-Butanone (MEK)	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130		
4-Methyl-2-pentanone (MIBK)	5.46 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Allyl chloride	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130		
Benzene	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Benzyl Chloride	5.16 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Bromodichloromethane	5.01 ppbv	0.5	ppbv	5.00	ppbv	100	70-130		
Bromoform	5.25 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Bromomethane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Carbon Disulfide	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130		
Carbon Tetrachloride	5.13 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Chlorobenzene	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Chloroethane	4.39 ppbv	0.5	ppbv	5.00	ppbv	87.8	70-130		
Chloroform	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Chloromethane	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
cis-1,2-Dichloroethylene	4.94 ppbv	0.5	ppbv	5.00	ppbv	98.8	70-130		
cis-1,3-Dichloropropene	5.40 ppbv	0.5	ppbv	5.00	ppbv	108	70-130		
Cyclohexane	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Dichlorodifluoromethane	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0362 - No Prep VOC

##### LCS (BZF0362-BS1)

Prepared & Analyzed: 06/14/2016

Ethyl acetate	4.87 ppbv	0.5	ppbv	5.00	ppbv	97.4	70-130		
Ethylbenzene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Heptane	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Hexane	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130		
Isopropylbenzene	5.75 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	11.3 ppbv	1	ppbv	10.0	ppbv	113	70-130		
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Methylene chloride	4.91 ppbv	1.00	ppbv		ppbv		70-130		
Methyl-t-butyl ether (MTBE)	4.96 ppbv	0.5	ppbv	5.00	ppbv	99.2	70-130		
o-Xylene	5.69 ppbv	0.5	ppbv	5.00	ppbv	114	70-130		
Propylene	5.21 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Styrene	5.96 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		
Tetrachloroethylene (PCE)	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Tetrahydrofuran	5.89 ppbv	0.5	ppbv	5.00	ppbv	118	70-130		
Toluene	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
trans-1,2-Dichloroethylene	4.96 ppbv	0.5	ppbv	5.00	ppbv	99.2	70-130		
trans-1,3-Dichloropropene	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Trichloroethylene	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Trichlorofluoromethane	5.14 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Vinyl acetate	5.14 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Vinyl bromide	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130		
Vinyl chloride	5.83 ppbv	0.5	ppbv	5.00	ppbv	117	70-130		
Xylenes, Total	17.0 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	<i>5.16</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>103</i>	<i>70-130</i>		

##### LCS Dup (BZF0362-BSD1)

Prepared & Analyzed: 06/14/2016

1,1,1-Trichloroethane	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.373	25
1,1,1,2-Tetrachloroethane	0.24 ppbv	0.50	ppbv		ppbv		70-130	4.08	25
1,1,2,2-Tetrachloroethane	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	1.58	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.70 ppbv	0.5	ppbv	5.00	ppbv	94.0	70-130	0.425	25
1,1,2-Trichloroethane	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	1.12	25
1,1-Dichloroethane	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130	0.610	25
1,1-Dichloroethylene	4.76 ppbv	0.5	ppbv	5.00	ppbv	95.2	70-130	0.210	25
1,2,4-Trimethylbenzene	6.00 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	0.837	25
1,2-Dibromoethane (EDB)	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	1.88	25



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
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Date Received: June 3, 2016 16:58  
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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0362 - No Prep VOC

##### LCS Dup (BZF0362-BSD1)

Prepared & Analyzed: 06/14/2016

1,2-Dichlorobenzene	4.67 ppbv	0.5	ppbv	5.00	ppbv	93.4	70-130	1.73	25
1,2-Dichloroethane	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130	0.599	25
1,2-Dichloropropane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.193	25
1,2-Dichlorotetrafluoroethane	5.40 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	7.31	25
1,3,5-Trimethylbenzene	5.69 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	0.701	25
1,3-Butadiene	4.50 ppbv	0.5	ppbv	5.00	ppbv	90.0	70-130	3.49	25
1,3-Dichlorobenzene	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130	1.49	25
1,4-Dichlorobenzene	4.67 ppbv	0.5	ppbv	5.00	ppbv	93.4	70-130	1.73	25
1,4-Dioxane	6.30 ppbv	0.5	ppbv	5.00	ppbv	126	70-130	2.20	25
2-Butanone (MEK)	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130	2.64	25
4-Methyl-2-pentanone (MIBK)	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	1.66	25
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
Allyl chloride	4.54 ppbv	0.5	ppbv	5.00	ppbv	90.8	70-130	6.19	25
Benzene	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	3.66	25
Benzyl Chloride	5.25 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	1.73	25
Bromodichloromethane	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130	1.20	25
Bromoform	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	2.70	25
Bromomethane	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	2.34	25
Carbon Disulfide	4.57 ppbv	0.5	ppbv	5.00	ppbv	91.4	70-130	2.59	25
Carbon Tetrachloride	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	1.77	25
Chlorobenzene	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130	3.00	25
Chloroethane	4.41 ppbv	0.5	ppbv	5.00	ppbv	88.2	70-130	0.455	25
Chloroform	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	2.91	25
Chloromethane	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	6.42	25
cis-1,2-Dichloroethylene	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130	0.203	25
cis-1,3-Dichloropropene	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	2.25	25
Cyclohexane	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130	1.98	25
Dichlorodifluoromethane	5.13 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	8.04	25
Ethyl acetate	4.43 ppbv	0.5	ppbv	5.00	ppbv	88.6	70-130	9.46	25
Ethylbenzene	5.46 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.81	25
Heptane	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130	2.61	25
Hexane	5.03 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	0.999	25
Isopropylbenzene	5.82 ppbv	0.50	ppbv		ppbv		70-130	1.21	25
m+p-Xylenes	11.1 ppbv	1	ppbv	10.0	ppbv	111	70-130	2.41	25
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
Methylene chloride	4.72 ppbv	1.00	ppbv		ppbv		70-130	3.95	25
Methyl-t-butyl ether (MTBE)	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	2.24	25



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Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual	
	Result	Limit			Units	%REC	Limits	RPD		Limit
<b>Batch BZF0362 - No Prep VOC</b>										
<b>LCS Dup (BZF0362-BSD1)</b>					Prepared & Analyzed: 06/14/2016					
o-Xylene	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	0.883	25	
Propylene	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130	10.5	25	
Styrene	5.95 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	0.168	25	
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		25	
Tetrachloroethylene (PCE)	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.972	25	
Tetrahydrofuran	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	1.37	25	
Toluene	5.46 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	0.730	25	
trans-1,2-Dichloroethylene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	2.24	25	
trans-1,3-Dichloropropene	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	0.00	25	
Trichloroethylene	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.15	25	
Trichlorofluoromethane	5.03 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	2.16	25	
Vinyl acetate	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	1.96	25	
Vinyl bromide	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130	1.25	25	
Vinyl chloride	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	7.10	25	
Xylenes, Total	16.7 ppbv	1.50	ppbv		ppbv		70-130	1.90	25	
<i>Surr: 4-Bromofluorobenzene</i>	<i>5.14</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>103</i>	<i>70-130</i>			

### Batch BZF0365 - No Prep VOC

<b>Blank (BZF0365-BLK1)</b>				Prepared & Analyzed: 06/14/2016						
1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv							
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv							
1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv							
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv							
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv							
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv							
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv							
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv							
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv							
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv							
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv							
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv							
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv							
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv							
1,3-Butadiene	<0.20 ppbv	0.50	ppbv							
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv							
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv							



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0365 - No Prep VOC

##### Blank (BZF0365-BLK1)

Prepared & Analyzed: 06/14/2016

1,4-Dioxane	<0.20 ppbv	0.50	ppbv
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv
Acrolein	<0.20 ppbv	0.50	ppbv
Allyl chloride	<0.20 ppbv	0.50	ppbv
Benzene	<0.20 ppbv	0.50	ppbv
Benzyl Chloride	<0.20 ppbv	0.50	ppbv
Bromodichloromethane	<0.20 ppbv	0.50	ppbv
Bromoform	<0.20 ppbv	0.50	ppbv
Bromomethane	<0.20 ppbv	0.50	ppbv
Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Cyclohexane	<0.20 ppbv	0.50	ppbv
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv
Ethyl acetate	<0.20 ppbv	0.50	ppbv
Ethylbenzene	<0.20 ppbv	0.50	ppbv
Heptane	<0.20 ppbv	0.50	ppbv
Hexane	<0.20 ppbv	0.50	ppbv
Isopropylbenzene	<0.20 ppbv	0.50	ppbv
m+p-Xylenes	<0.40 ppbv	1.00	ppbv
Methyl methacrylate	<0.20 ppbv	0.50	ppbv
Methylene chloride	<0.50 ppbv	1.00	ppbv
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv
o-Xylene	<0.20 ppbv	0.50	ppbv
Propylene	<0.20 ppbv	0.50	ppbv
Styrene	<0.20 ppbv	0.50	ppbv
TBA	<0.50 ppbv	0.50	ppbv
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv
Toluene	<0.20 ppbv	0.50	ppbv
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv



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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

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Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0365 - No Prep VOC

##### Blank (BZF0365-BLK1)

Prepared & Analyzed: 06/14/2016

trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Trichloroethylene	<0.20 ppbv	0.50	ppbv						
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv						
Vinyl acetate	<0.20 ppbv	0.50	ppbv						
Vinyl bromide	<0.20 ppbv	0.50	ppbv						
Vinyl chloride	<0.20 ppbv	0.50	ppbv						
Xylenes, Total	<0.60 ppbv	1.50	ppbv						

Surr: 4-Bromofluorobenzene 4.65 ppbv 5.00 93.0 80-120

##### LCS (BZF0365-BS1)

Prepared & Analyzed: 06/14/2016

1,1,1-Trichloroethane	5.38 ppbv	0.5	ppbv	5.00	ppbv	108	70-130
1,1,1,2-Tetrachloroethane	0.34 ppbv	0.50	ppbv		ppbv		70-130
1,1,2,2-Tetrachloroethane	5.46 ppbv	0.5	ppbv	5.00	ppbv	109	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130
1,1,2-Trichloroethane	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130
1,1-Dichloroethane	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130
1,1-Dichloroethylene	5.00 ppbv	0.5	ppbv	5.00	ppbv	100	70-130
1,2,4-Trimethylbenzene	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130
1,2-Dibromoethane (EDB)	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130
1,2-Dichlorobenzene	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130
1,2-Dichloroethane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130
1,2-Dichloropropane	5.45 ppbv	0.5	ppbv	5.00	ppbv	109	70-130
1,2-Dichlorotetrafluoroethane	5.52 ppbv	0.5	ppbv	5.00	ppbv	110	70-130
1,3,5-Trimethylbenzene	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130
1,3-Butadiene	4.64 ppbv	0.5	ppbv	5.00	ppbv	92.8	70-130
1,3-Dichlorobenzene	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130
1,4-Dichlorobenzene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130
1,4-Dioxane	4.05 ppbv	0.5	ppbv	5.00	ppbv	81.0	70-130
2-Butanone (MEK)	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130
4-Methyl-2-pentanone (MIBK)	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130
Acrolein	0.30 ppbv	0.50	ppbv		ppbv		70-130
Allyl chloride	4.54 ppbv	0.5	ppbv	5.00	ppbv	90.8	70-130
Benzene	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130
Benzyl Chloride	4.75 ppbv	0.5	ppbv	5.00	ppbv	95.0	70-130
Bromodichloromethane	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130
Bromoform	4.40 ppbv	0.5	ppbv	5.00	ppbv	88.0	70-130



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0365 - No Prep VOC

##### LCS (BZF0365-BS1)

Prepared & Analyzed: 06/14/2016

Bromomethane	5.70 ppbv	0.5	ppbv	5.00	ppbv	114	70-130			
Carbon Disulfide	5.02 ppbv	0.5	ppbv	5.00	ppbv	100	70-130			
Carbon Tetrachloride	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130			
Chlorobenzene	4.75 ppbv	0.5	ppbv	5.00	ppbv	95.0	70-130			
Chloroethane	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130			
Chloroform	5.45 ppbv	0.5	ppbv	5.00	ppbv	109	70-130			
Chloromethane	6.47 ppbv	0.5	ppbv	5.00	ppbv	129	70-130			
cis-1,2-Dichloroethylene	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130			
cis-1,3-Dichloropropene	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130			
Cyclohexane	4.64 ppbv	0.5	ppbv	5.00	ppbv	92.8	70-130			
Dichlorodifluoromethane	6.01 ppbv	0.5	ppbv	5.00	ppbv	120	70-130			
Ethyl acetate	4.13 ppbv	0.5	ppbv	5.00	ppbv	82.6	70-130			
Ethylbenzene	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130			
Heptane	4.42 ppbv	0.5	ppbv	5.00	ppbv	88.4	70-130			
Hexane	4.70 ppbv	0.5	ppbv	5.00	ppbv	94.0	70-130			
Isopropylbenzene	5.49 ppbv	0.50	ppbv		ppbv		70-130			
m+p-Xylenes	9.86 ppbv	1	ppbv	10.0	ppbv	98.6	70-130			
Methyl methacrylate	0.23 ppbv	0.50	ppbv		ppbv		70-130			
Methylene chloride	5.01 ppbv	1.00	ppbv		ppbv		70-130			
Methyl-t-butyl ether (MTBE)	5.33 ppbv	0.5	ppbv	5.00	ppbv	107	70-130			
o-Xylene	4.94 ppbv	0.5	ppbv	5.00	ppbv	98.8	70-130			
Propylene	6.04 ppbv	0.5	ppbv	5.00	ppbv	121	70-130			
Styrene	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130			
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130			
Tetrachloroethylene (PCE)	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130			
Tetrahydrofuran	6.46 ppbv	0.5	ppbv	5.00	ppbv	129	70-130			
Toluene	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130			
trans-1,2-Dichloroethylene	4.79 ppbv	0.5	ppbv	5.00	ppbv	95.8	70-130			
trans-1,3-Dichloropropene	4.36 ppbv	0.5	ppbv	5.00	ppbv	87.2	70-130			
Trichloroethylene	4.68 ppbv	0.5	ppbv	5.00	ppbv	93.6	70-130			
Trichlorofluoromethane	5.58 ppbv	0.5	ppbv	5.00	ppbv	112	70-130			
Vinyl acetate	3.01 ppbv	0.5	ppbv	5.00	ppbv	60.2	70-130			L
Vinyl bromide	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130			
Vinyl chloride	5.62 ppbv	0.5	ppbv	5.00	ppbv	112	70-130			
Xylenes, Total	14.8 ppbv	1.50	ppbv		ppbv		70-130			
Surr: 4-Bromofluorobenzene	4.95		ppbv	5.00	ppbv	99.0	70-130			



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0365 - No Prep VOC

##### LCS Dup (BZF0365-BSD1)

Prepared & Analyzed: 06/14/2016

1,1,1-Trichloroethane	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.186	25
1,1,1,2-Tetrachloroethane	0.34 ppbv	0.50	ppbv		ppbv		70-130	0.00	25
1,1,2,2-Tetrachloroethane	5.51 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	0.912	25
1,1,2-Trichloro-1,2,2-trifluoroethane	5.02 ppbv	0.5	ppbv	5.00	ppbv	100	70-130	2.01	25
1,1,2-Trichloroethane	5.52 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	2.38	25
1,1-Dichloroethane	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.97	25
1,1-Dichloroethylene	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130	1.41	25
1,2,4-Trimethylbenzene	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.85	25
1,2-Dibromoethane (EDB)	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.197	25
1,2-Dichlorobenzene	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.572	25
1,2-Dichloroethane	5.29 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	1.33	25
1,2-Dichloropropane	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	2.71	25
1,2-Dichlorotetrafluoroethane	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	1.44	25
1,3,5-Trimethylbenzene	5.35 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	1.70	25
1,3-Butadiene	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130	2.76	25
1,3-Dichlorobenzene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	1.62	25
1,4-Dichlorobenzene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	0.00	25
1,4-Dioxane	4.65 ppbv	0.5	ppbv	5.00	ppbv	93.0	70-130	13.8	25
2-Butanone (MEK)	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130	0.619	25
4-Methyl-2-pentanone (MIBK)	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130	0.418	25
Acrolein	0.32 ppbv	0.50	ppbv		ppbv		70-130	6.45	25
Allyl chloride	4.56 ppbv	0.5	ppbv	5.00	ppbv	91.2	70-130	0.440	25
Benzene	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	1.71	25
Benzyl Chloride	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	3.31	25
Bromodichloromethane	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	2.27	25
Bromoform	4.38 ppbv	0.5	ppbv	5.00	ppbv	87.6	70-130	0.456	25
Bromomethane	5.76 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	1.05	25
Carbon Disulfide	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	0.800	25
Carbon Tetrachloride	5.01 ppbv	0.5	ppbv	5.00	ppbv	100	70-130	2.02	25
Chlorobenzene	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130	1.91	25
Chloroethane	5.48 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	0.908	25
Chloroform	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	0.368	25
Chloromethane	6.45 ppbv	0.5	ppbv	5.00	ppbv	129	70-130	0.310	25
cis-1,2-Dichloroethylene	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130	3.80	25
cis-1,3-Dichloropropene	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130	0.00	25
Cyclohexane	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130	4.22	25
Dichlorodifluoromethane	6.16 ppbv	0.5	ppbv	5.00	ppbv	123	70-130	2.47	25



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### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0365 - No Prep VOC

##### LCS Dup (BZF0365-BSD1)

Prepared & Analyzed: 06/14/2016

Ethyl acetate	4.49 ppbv	0.5	ppbv	5.00	ppbv	89.8	70-130	8.35	25	
Ethylbenzene	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.195	25	
Heptane	4.25 ppbv	0.5	ppbv	5.00	ppbv	85.0	70-130	3.92	25	
Hexane	4.56 ppbv	0.5	ppbv	5.00	ppbv	91.2	70-130	3.02	25	
Isopropylbenzene	5.52 ppbv	0.50	ppbv		ppbv		70-130	0.545	25	
m+p-Xylenes	9.83 ppbv	1	ppbv	10.0	ppbv	98.3	70-130	0.305	25	
Methyl methacrylate	0.22 ppbv	0.50	ppbv		ppbv		70-130	4.44	25	
Methylene chloride	5.16 ppbv	1.00	ppbv		ppbv		70-130	2.95	25	
Methyl-t-butyl ether (MTBE)	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.561	25	
o-Xylene	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130	1.01	25	
Propylene	6.15 ppbv	0.5	ppbv	5.00	ppbv	123	70-130	1.80	25	
Styrene	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.197	25	
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		25	
Tetrachloroethylene (PCE)	4.68 ppbv	0.5	ppbv	5.00	ppbv	93.6	70-130	3.77	25	
Tetrahydrofuran	6.73 ppbv	0.5	ppbv	5.00	ppbv	135	70-130	4.09	25	L
Toluene	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	0.00	25	
trans-1,2-Dichloroethylene	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130	1.26	25	
trans-1,3-Dichloropropene	4.29 ppbv	0.5	ppbv	5.00	ppbv	85.8	70-130	1.62	25	
Trichloroethylene	4.60 ppbv	0.5	ppbv	5.00	ppbv	92.0	70-130	1.72	25	
Trichlorofluoromethane	5.62 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	0.714	25	
Vinyl acetate	3.00 ppbv	0.5	ppbv	5.00	ppbv	60.0	70-130	0.333	25	L
Vinyl bromide	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130	0.203	25	
Vinyl chloride	5.67 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	0.886	25	
Xylenes, Total	14.8 ppbv	1.50	ppbv		ppbv		70-130	0.135	25	
<i>Surr: 4-Bromofluorobenzene</i>	4.97		ppbv	5.00	ppbv	99.4	70-130			

#### Batch BZF0422 - No Prep VOC

##### Blank (BZF0422-BLK1)

Prepared & Analyzed: 06/15/2016

1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv							
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv							
1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv							
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv							
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv							
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv							
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv							
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv							





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0422 - No Prep VOC

##### Blank (BZF0422-BLK1)

Prepared & Analyzed: 06/15/2016

1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv						
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv						
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv						
1,3-Butadiene	<0.20 ppbv	0.50	ppbv						
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,4-Dioxane	<0.20 ppbv	0.50	ppbv						
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv						
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv						
Acrolein	<0.20 ppbv	0.50	ppbv						
Allyl chloride	<0.20 ppbv	0.50	ppbv						
Benzene	<0.20 ppbv	0.50	ppbv						
Benzyl Chloride	<0.20 ppbv	0.50	ppbv						
Bromodichloromethane	<0.20 ppbv	0.50	ppbv						
Bromoform	<0.20 ppbv	0.50	ppbv						
Bromomethane	<0.20 ppbv	0.50	ppbv						
Carbon Disulfide	<0.50 ppbv	0.50	ppbv						
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv						
Chlorobenzene	<0.20 ppbv	0.50	ppbv						
Chloroethane	<0.20 ppbv	0.50	ppbv						
Chloroform	<0.20 ppbv	0.50	ppbv						
Chloromethane	<0.20 ppbv	0.50	ppbv						
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Cyclohexane	<0.20 ppbv	0.50	ppbv						
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv						
Ethyl acetate	<0.20 ppbv	0.50	ppbv						
Ethylbenzene	<0.20 ppbv	0.50	ppbv						
Heptane	<0.20 ppbv	0.50	ppbv						
Hexane	<0.20 ppbv	0.50	ppbv						
Isopropylbenzene	<0.20 ppbv	0.50	ppbv						
m+p-Xylenes	<0.40 ppbv	1.00	ppbv						
Methyl methacrylate	<0.20 ppbv	0.50	ppbv						
Methylene chloride	<0.50 ppbv	1.00	ppbv						



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Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0422 - No Prep VOC

##### Blank (BZF0422-BLK1)

Prepared & Analyzed: 06/15/2016

Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv						
o-Xylene	<0.20 ppbv	0.50	ppbv						
Propylene	<0.20 ppbv	0.50	ppbv						
Styrene	<0.20 ppbv	0.50	ppbv						
TBA	<0.50 ppbv	0.50	ppbv						
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv						
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv						
Toluene	<0.20 ppbv	0.50	ppbv						
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Trichloroethylene	<0.20 ppbv	0.50	ppbv						
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv						
Vinyl acetate	<0.20 ppbv	0.50	ppbv						
Vinyl bromide	<0.20 ppbv	0.50	ppbv						
Vinyl chloride	<0.20 ppbv	0.50	ppbv						
Xylenes, Total	<0.60 ppbv	1.50	ppbv						

Surr: 4-Bromofluorobenzene

4.21

ppbv

5.00

84.2 80-120

##### LCS (BZF0422-BS1)

Prepared & Analyzed: 06/15/2016

1,1,1-Trichloroethane	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130
1,1,1,2-Tetrachloroethane	0.26 ppbv	0.50	ppbv		ppbv		70-130
1,1,2,2-Tetrachloroethane	5.73 ppbv	0.5	ppbv	5.00	ppbv	115	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.94 ppbv	0.5	ppbv	5.00	ppbv	98.8	70-130
1,1,2-Trichloroethane	5.64 ppbv	0.5	ppbv	5.00	ppbv	113	70-130
1,1-Dichloroethane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130
1,1-Dichloroethylene	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130
1,2,4-Trimethylbenzene	5.99 ppbv	0.5	ppbv	5.00	ppbv	120	70-130
1,2-Dibromoethane (EDB)	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130
1,2-Dichlorobenzene	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130
1,2-Dichloroethane	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130
1,2-Dichloropropane	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130
1,2-Dichlorotetrafluoroethane	6.13 ppbv	0.5	ppbv	5.00	ppbv	123	70-130
1,3,5-Trimethylbenzene	5.70 ppbv	0.5	ppbv	5.00	ppbv	114	70-130
1,3-Butadiene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130
1,3-Dichlorobenzene	4.75 ppbv	0.5	ppbv	5.00	ppbv	95.0	70-130
1,4-Dichlorobenzene	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130



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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0422 - No Prep VOC

##### LCS (BZF0422-BS1)

Prepared & Analyzed: 06/15/2016

1,4-Dioxane	6.84 ppbv	0.5	ppbv	5.00	ppbv	137	70-130			L
2-Butanone (MEK)	5.24 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
4-Methyl-2-pentanone (MIBK)	5.65 ppbv	0.5	ppbv	5.00	ppbv	113	70-130			
Allyl chloride	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130			
Benzene	5.51 ppbv	0.5	ppbv	5.00	ppbv	110	70-130			
Benzyl Chloride	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
Bromodichloromethane	5.29 ppbv	0.5	ppbv	5.00	ppbv	106	70-130			
Bromoform	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130			
Bromomethane	5.40 ppbv	0.5	ppbv	5.00	ppbv	108	70-130			
Carbon Disulfide	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130			
Carbon Tetrachloride	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130			
Chlorobenzene	5.13 ppbv	0.5	ppbv	5.00	ppbv	103	70-130			
Chloroethane	4.35 ppbv	0.5	ppbv	5.00	ppbv	87.0	70-130			
Chloroform	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130			
Chloromethane	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130			
cis-1,2-Dichloroethylene	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130			
cis-1,3-Dichloropropene	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130			
Cyclohexane	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
Dichlorodifluoromethane	5.65 ppbv	0.5	ppbv	5.00	ppbv	113	70-130			
Ethyl acetate	4.89 ppbv	0.5	ppbv	5.00	ppbv	97.8	70-130			
Ethylbenzene	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130			
Heptane	5.25 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
Hexane	5.24 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
Isopropylbenzene	5.92 ppbv	0.50	ppbv		ppbv		70-130			
m+p-Xylenes	11.2 ppbv	1	ppbv	10.0	ppbv	112	70-130			
Methylene chloride	4.89 ppbv	1.00	ppbv		ppbv		70-130			
Methyl-t-butyl ether (MTBE)	5.10 ppbv	0.5	ppbv	5.00	ppbv	102	70-130			
o-Xylene	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130			
Propylene	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130			
Styrene	6.06 ppbv	0.5	ppbv	5.00	ppbv	121	70-130			
Tetrachloroethylene (PCE)	5.24 ppbv	0.5	ppbv	5.00	ppbv	105	70-130			
Tetrahydrofuran	6.23 ppbv	0.5	ppbv	5.00	ppbv	125	70-130			
Toluene	5.75 ppbv	0.5	ppbv	5.00	ppbv	115	70-130			
trans-1,2-Dichloroethylene	5.13 ppbv	0.5	ppbv	5.00	ppbv	103	70-130			
trans-1,3-Dichloropropene	5.84 ppbv	0.5	ppbv	5.00	ppbv	117	70-130			
Trichloroethylene	5.52 ppbv	0.5	ppbv	5.00	ppbv	110	70-130			
Trichlorofluoromethane	5.35 ppbv	0.5	ppbv	5.00	ppbv	107	70-130			



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0422 - No Prep VOC

##### LCS (BZF0422-BS1)

Prepared & Analyzed: 06/15/2016

Vinyl acetate	5.33 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Vinyl bromide	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Vinyl chloride	6.12 ppbv	0.5	ppbv	5.00	ppbv	122	70-130		
Xylenes, Total	16.8 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	<i>4.89</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>97.8</i>	<i>70-130</i>		

##### LCS Dup (BZF0422-BSD1)

Prepared & Analyzed: 06/15/2016

1,1,1-Trichloroethane	5.59 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	1.24	25
1,1,1,2-Tetrachloroethane	0.27 ppbv	0.50	ppbv		ppbv		70-130	3.77	25
1,1,2,2-Tetrachloroethane	5.94 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	3.60	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.95 ppbv	0.5	ppbv	5.00	ppbv	99.0	70-130	0.202	25
1,1,2-Trichloroethane	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.97	25
1,1-Dichloroethane	5.19 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.193	25
1,1-Dichloroethylene	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	0.409	25
1,2,4-Trimethylbenzene	6.50 ppbv	0.5	ppbv	5.00	ppbv	130	70-130	8.17	25
1,2-Dibromoethane (EDB)	6.05 ppbv	0.5	ppbv	5.00	ppbv	121	70-130	9.71	25
1,2-Dichlorobenzene	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	9.89	25
1,2-Dichloroethane	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	2.44	25
1,2-Dichloropropane	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	1.80	25
1,2-Dichlorotetrafluoroethane	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	6.57	25
1,3,5-Trimethylbenzene	6.18 ppbv	0.5	ppbv	5.00	ppbv	124	70-130	8.08	25
1,3-Butadiene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	0.00	25
1,3-Dichlorobenzene	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	7.50	25
1,4-Dichlorobenzene	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	9.89	25
1,4-Dioxane	6.63 ppbv	0.5	ppbv	5.00	ppbv	133	70-130	3.12	25
2-Butanone (MEK)	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	1.73	25
4-Methyl-2-pentanone (MIBK)	5.61 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	0.710	25
Allyl chloride	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	2.06	25
Benzene	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.28	25
Benzyl Chloride	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	6.83	25
Bromodichloromethane	5.25 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.759	25
Bromoform	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	0.755	25
Bromomethane	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.743	25
Carbon Disulfide	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130	2.06	25
Carbon Tetrachloride	5.41 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.553	25
Chlorobenzene	5.19 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.16	25

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Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	
<b>Batch BZF0422 - No Prep VOC</b>									
<b>LCS Dup (BZF0422-BSD1)</b>					Prepared & Analyzed: 06/15/2016				
Chloroethane	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130	10.0	25
Chloroform	5.41 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.370	25
Chloromethane	5.70 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	0.699	25
cis-1,2-Dichloroethylene	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	1.17	25
cis-1,3-Dichloropropene	5.68 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	0.353	25
Cyclohexane	5.28 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	0.380	25
Dichlorodifluoromethane	5.38 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	4.90	25
Ethyl acetate	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	6.53	25
Ethylbenzene	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	2.32	25
Heptane	5.38 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	2.45	25
Hexane	5.41 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	3.19	25
Isopropylbenzene	6.09 ppbv	0.50	ppbv		ppbv		70-130	2.83	25
m+p-Xylenes	11.9 ppbv	1	ppbv	10.0	ppbv	119	70-130	5.37	25
Methylene chloride	4.96 ppbv	1.00	ppbv		ppbv		70-130	1.42	25
Methyl-t-butyl ether (MTBE)	5.07 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	0.590	25
o-Xylene	6.03 ppbv	0.5	ppbv	5.00	ppbv	121	70-130	7.39	25
Propylene	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	2.73	25
Styrene	6.19 ppbv	0.5	ppbv	5.00	ppbv	124	70-130	2.12	25
Tetrachloroethylene (PCE)	5.52 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	5.20	25
Tetrahydrofuran	6.21 ppbv	0.5	ppbv	5.00	ppbv	124	70-130	0.322	25
Toluene	5.89 ppbv	0.5	ppbv	5.00	ppbv	118	70-130	2.41	25
trans-1,2-Dichloroethylene	5.07 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	1.18	25
trans-1,3-Dichloropropene	5.75 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	1.55	25
Trichloroethylene	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	0.545	25
Trichlorofluoromethane	5.30 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	0.939	25
Vinyl acetate	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	0.188	25
Vinyl bromide	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130	4.62	25
Vinyl chloride	5.73 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	6.58	25
Xylenes, Total	17.9 ppbv	1.50	ppbv		ppbv		70-130	6.05	25
Surr: 4-Bromofluorobenzene	5.14		ppbv	5.00	ppbv	103	70-130		



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Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0424 - No Prep VOC

##### Blank (BZF0424-BLK1)

Prepared & Analyzed: 06/16/2016

1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,3-Butadiene	<0.20 ppbv	0.50	ppbv
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dioxane	<0.20 ppbv	0.50	ppbv
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv
Acrolein	<0.20 ppbv	0.50	ppbv
Allyl chloride	<0.20 ppbv	0.50	ppbv
Benzene	<0.20 ppbv	0.50	ppbv
Benzyl Chloride	<0.20 ppbv	0.50	ppbv
Bromodichloromethane	<0.20 ppbv	0.50	ppbv
Bromoform	<0.20 ppbv	0.50	ppbv
Bromomethane	<0.20 ppbv	0.50	ppbv
Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Cyclohexane	<0.20 ppbv	0.50	ppbv
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0424 - No Prep VOC

##### Blank (BZF0424-BLK1)

Prepared & Analyzed: 06/16/2016

Ethyl acetate	<0.20 ppbv	0.50	ppbv						
Ethylbenzene	<0.20 ppbv	0.50	ppbv						
Heptane	<0.20 ppbv	0.50	ppbv						
Hexane	<0.20 ppbv	0.50	ppbv						
Isopropylbenzene	<0.20 ppbv	0.50	ppbv						
m+p-Xylenes	<0.40 ppbv	1.00	ppbv						
Methyl methacrylate	<0.20 ppbv	0.50	ppbv						
Methylene chloride	<0.50 ppbv	1.00	ppbv						
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv						
o-Xylene	<0.20 ppbv	0.50	ppbv						
Propylene	<0.20 ppbv	0.50	ppbv						
Styrene	<0.20 ppbv	0.50	ppbv						
TBA	<0.50 ppbv	0.50	ppbv						
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv						
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv						
Toluene	<0.20 ppbv	0.50	ppbv						
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv						
Trichloroethylene	<0.20 ppbv	0.50	ppbv						
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv						
Vinyl acetate	<0.20 ppbv	0.50	ppbv						
Vinyl bromide	<0.20 ppbv	0.50	ppbv						
Vinyl chloride	<0.20 ppbv	0.50	ppbv						
Xylenes, Total	<0.60 ppbv	1.50	ppbv						

Surr: 4-Bromofluorobenzene

4.16

ppbv

5.00

83.2 80-120

##### LCS (BZF0424-BS1)

Prepared & Analyzed: 06/16/2016

1,1,1-Trichloroethane	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130
1,1,2,2-Tetrachloroethane	5.82 ppbv	0.5	ppbv	5.00	ppbv	116	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130
1,1,2-Trichloroethane	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130
1,1-Dichloroethane	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130
1,1-Dichloroethylene	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130
1,2,4-Trimethylbenzene	5.98 ppbv	0.5	ppbv	5.00	ppbv	120	70-130
1,2-Dibromoethane (EDB)	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130
1,2-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130



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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0424 - No Prep VOC

##### LCS (BZF0424-BS1)

Prepared & Analyzed: 06/16/2016

1,2-Dichloroethane	5.35 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
1,2-Dichloropropane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
1,2-Dichlorotetrafluoroethane	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130		
1,3,5-Trimethylbenzene	5.72 ppbv	0.5	ppbv	5.00	ppbv	114	70-130		
1,3-Butadiene	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130		
1,3-Dichlorobenzene	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130		
1,4-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130		
1,4-Dioxane	6.32 ppbv	0.5	ppbv	5.00	ppbv	126	70-130		
2-Butanone (MEK)	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
4-Methyl-2-pentanone (MIBK)	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Allyl chloride	5.00 ppbv	0.5	ppbv	5.00	ppbv	100	70-130		
Benzene	5.41 ppbv	0.5	ppbv	5.00	ppbv	108	70-130		
Benzyl Chloride	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Bromodichloromethane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Bromoform	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Bromomethane	5.45 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Carbon Disulfide	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130		
Carbon Tetrachloride	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130		
Chlorobenzene	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Chloroethane	5.75 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
Chloroform	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Chloromethane	5.52 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
cis-1,2-Dichloroethylene	5.15 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
cis-1,3-Dichloropropene	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Cyclohexane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Dichlorodifluoromethane	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Ethyl acetate	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130		
Ethylbenzene	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Heptane	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Hexane	5.21 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Isopropylbenzene	5.81 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	11.4 ppbv	1	ppbv	10.0	ppbv	114	70-130		
Methylene chloride	5.06 ppbv	1.00	ppbv		ppbv		70-130		
Methyl-t-butyl ether (MTBE)	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
o-Xylene	5.73 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
Propylene	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Styrene	6.07 ppbv	0.5	ppbv	5.00	ppbv	121	70-130		





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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0424 - No Prep VOC

##### LCS (BZF0424-BS1)

Prepared & Analyzed: 06/16/2016

Tetrachloroethylene (PCE)	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130		
Tetrahydrofuran	6.25 ppbv	0.5	ppbv	5.00	ppbv	125	70-130		
Toluene	5.67 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
trans-1,2-Dichloroethylene	4.99 ppbv	0.5	ppbv	5.00	ppbv	99.8	70-130		
trans-1,3-Dichloropropene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Trichloroethylene	5.58 ppbv	0.5	ppbv	5.00	ppbv	112	70-130		
Trichlorofluoromethane	5.29 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Vinyl acetate	5.48 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Vinyl bromide	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130		
Vinyl chloride	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Xylenes, Total	17.1 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	<i>4.93</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>98.6</i>	<i>70-130</i>		

##### LCS Dup (BZF0424-BSD1)

Prepared & Analyzed: 06/16/2016

1,1,1-Trichloroethane	5.79 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	3.34	25
1,1,2,2-Tetrachloroethane	6.06 ppbv	0.5	ppbv	5.00	ppbv	121	70-130	4.04	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.87 ppbv	0.5	ppbv	5.00	ppbv	97.4	70-130	0.618	25
1,1,2-Trichloroethane	5.76 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	3.53	25
1,1-Dichloroethane	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.195	25
1,1-Dichloroethylene	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130	0.830	25
1,2,4-Trimethylbenzene	6.27 ppbv	0.5	ppbv	5.00	ppbv	125	70-130	4.73	25
1,2-Dibromoethane (EDB)	5.60 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	1.98	25
1,2-Dichlorobenzene	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130	3.73	25
1,2-Dichloroethane	5.42 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	1.30	25
1,2-Dichloropropane	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	7.14	25
1,2-Dichlorotetrafluoroethane	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	7.51	25
1,3,5-Trimethylbenzene	5.96 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	4.11	25
1,3-Butadiene	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130	2.73	25
1,3-Dichlorobenzene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	4.31	25
1,4-Dichlorobenzene	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130	3.73	25
1,4-Dioxane	6.56 ppbv	0.5	ppbv	5.00	ppbv	131	70-130	3.73	25
2-Butanone (MEK)	5.19 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.55	25
4-Methyl-2-pentanone (MIBK)	5.49 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	7.56	25
Allyl chloride	4.57 ppbv	0.5	ppbv	5.00	ppbv	91.4	70-130	8.99	25
Benzene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	2.73	25
Benzyl Chloride	5.45 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	5.27	25

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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	
<b>Batch BZF0424 - No Prep VOC</b>									
<b>LCS Dup (BZF0424-BSD1)</b>					Prepared & Analyzed: 06/16/2016				
Bromodichloromethane	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	3.17	25
Bromoform	5.51 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	1.46	25
Bromomethane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	4.12	25
Carbon Disulfide	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130	1.05	25
Carbon Tetrachloride	5.42 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	2.81	25
Chlorobenzene	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.193	25
Chloroethane	5.68 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	1.22	25
Chloroform	5.38 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.925	25
Chloromethane	5.54 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	0.362	25
cis-1,2-Dichloroethylene	5.19 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.774	25
cis-1,3-Dichloropropene	5.72 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	3.92	25
Cyclohexane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	0.769	25
Dichlorodifluoromethane	5.42 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.927	25
Ethyl acetate	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	1.85	25
Ethylbenzene	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	2.32	25
Heptane	5.59 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	2.72	25
Hexane	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	2.09	25
Isopropylbenzene	6.04 ppbv	0.50	ppbv		ppbv		70-130	3.88	25
m+p-Xylenes	11.6 ppbv	1	ppbv	10.0	ppbv	116	70-130	2.26	25
Methylene chloride	4.89 ppbv	1.00	ppbv		ppbv		70-130	3.42	25
Methyl-t-butyl ether (MTBE)	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.197	25
o-Xylene	5.88 ppbv	0.5	ppbv	5.00	ppbv	118	70-130	2.58	25
Propylene	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.588	25
Styrene	6.14 ppbv	0.5	ppbv	5.00	ppbv	123	70-130	1.15	25
Tetrachloroethylene (PCE)	5.38 ppbv	0.5	ppbv	5.00	ppbv	108	70-130	0.925	25
Tetrahydrofuran	6.66 ppbv	0.5	ppbv	5.00	ppbv	133	70-130	6.35	25
Toluene	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	2.44	25
trans-1,2-Dichloroethylene	5.01 ppbv	0.5	ppbv	5.00	ppbv	100	70-130	0.400	25
trans-1,3-Dichloropropene	5.83 ppbv	0.5	ppbv	5.00	ppbv	117	70-130	4.74	25
Trichloroethylene	5.58 ppbv	0.5	ppbv	5.00	ppbv	112	70-130	0.00	25
Trichlorofluoromethane	5.21 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.52	25
Vinyl acetate	5.54 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.09	25
Vinyl bromide	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	1.64	25
Vinyl chloride	5.34 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	4.40	25
Xylenes, Total	17.5 ppbv	1.50	ppbv		ppbv		70-130	2.37	25
Surr: 4-Bromofluorobenzene	5.04		ppbv	5.00	ppbv	101	70-130		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
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Date Received: June 3, 2016 16:58  
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Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### Blank (BZF0457-BLK1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,3-Butadiene	<0.20 ppbv	0.50	ppbv
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dioxane	<0.20 ppbv	0.50	ppbv
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv
Acrolein	<0.20 ppbv	0.50	ppbv
Allyl chloride	<0.20 ppbv	0.50	ppbv
Benzene	<0.20 ppbv	0.50	ppbv
Benzyl Chloride	<0.20 ppbv	0.50	ppbv
Bromodichloromethane	<0.20 ppbv	0.50	ppbv
Bromoform	<0.20 ppbv	0.50	ppbv
Bromomethane	<0.20 ppbv	0.50	ppbv
Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Cyclohexane	<0.20 ppbv	0.50	ppbv
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv



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Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### Blank (BZF0457-BLK1)

Prepared & Analyzed: 06/18/2016

Ethyl acetate	<0.20 ppbv	0.50	ppbv
Ethylbenzene	<0.20 ppbv	0.50	ppbv
Heptane	<0.20 ppbv	0.50	ppbv
Hexane	<0.20 ppbv	0.50	ppbv
Isopropylbenzene	<0.20 ppbv	0.50	ppbv
m+p-Xylenes	<0.40 ppbv	1.00	ppbv
Methyl methacrylate	<0.20 ppbv	0.50	ppbv
Methylene chloride	<0.50 ppbv	1.00	ppbv
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv
o-Xylene	<0.20 ppbv	0.50	ppbv
Propylene	<0.20 ppbv	0.50	ppbv
Styrene	<0.20 ppbv	0.50	ppbv
TBA	<0.50 ppbv	0.50	ppbv
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv
Toluene	<0.20 ppbv	0.50	ppbv
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Trichloroethylene	<0.20 ppbv	0.50	ppbv
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv
Vinyl acetate	<0.20 ppbv	0.50	ppbv
Vinyl bromide	<0.20 ppbv	0.50	ppbv
Vinyl chloride	<0.20 ppbv	0.50	ppbv
Xylenes, Total	<0.60 ppbv	1.50	ppbv

Surr: 4-Bromofluorobenzene 4.42 ppbv 5.00 88.4 80-120

##### LCS (BZF0457-BS1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv		ppbv		70-130
1,1,2,2-Tetrachloroethane	5.96 ppbv	0.5	ppbv	5.00	ppbv	119	70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130
1,1,2-Trichloroethane	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130
1,1-Dichloroethane	5.10 ppbv	0.5	ppbv	5.00	ppbv	102	70-130
1,1-Dichloroethylene	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130
1,2,4-Trimethylbenzene	6.15 ppbv	0.5	ppbv	5.00	ppbv	123	70-130
1,2-Dibromoethane (EDB)	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

#### LCS (BZF0457-BS1)

Prepared & Analyzed: 06/18/2016

1,2-Dichlorobenzene	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130		
1,2-Dichloroethane	5.30 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,2-Dichloropropane	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,2-Dichlorotetrafluoroethane	4.39 ppbv	0.5	ppbv	5.00	ppbv	87.8	70-130		
1,3,5-Trimethylbenzene	5.91 ppbv	0.5	ppbv	5.00	ppbv	118	70-130		
1,3-Butadiene	4.32 ppbv	0.5	ppbv	5.00	ppbv	86.4	70-130		
1,3-Dichlorobenzene	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130		
1,4-Dichlorobenzene	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130		
1,4-Dioxane	6.36 ppbv	0.5	ppbv	5.00	ppbv	127	70-130		
2-Butanone (MEK)	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
4-Methyl-2-pentanone (MIBK)	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Allyl chloride	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130		
Benzene	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Benzyl Chloride	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130		
Bromodichloromethane	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Bromoform	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Bromomethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
Carbon Disulfide	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
Carbon Tetrachloride	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chlorobenzene	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chloroethane	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chloroform	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Chloromethane	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130		
cis-1,2-Dichloroethylene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130		
cis-1,3-Dichloropropene	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
Cyclohexane	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Dichlorodifluoromethane	4.79 ppbv	0.5	ppbv	5.00	ppbv	95.8	70-130		
Ethyl acetate	3.86 ppbv	0.5	ppbv	5.00	ppbv	77.2	70-130		
Ethylbenzene	5.94 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
Heptane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Hexane	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Isopropylbenzene	6.08 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	11.9 ppbv	1	ppbv	10.0	ppbv	119	70-130		
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Methylene chloride	4.69 ppbv	1.00	ppbv		ppbv		70-130		
Methyl-t-butyl ether (MTBE)	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		



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## Certificate of Analysis

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### LCS (BZF0457-BS1)

Prepared & Analyzed: 06/18/2016

o-Xylene	6.03 ppbv	0.5	ppbv	5.00	ppbv	121	70-130		
Propylene	3.96 ppbv	0.5	ppbv	5.00	ppbv	79.2	70-130		
Styrene	6.08 ppbv	0.5	ppbv	5.00	ppbv	122	70-130		
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		
Tetrachloroethylene (PCE)	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Tetrahydrofuran	6.14 ppbv	0.5	ppbv	5.00	ppbv	123	70-130		
Toluene	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
trans-1,2-Dichloroethylene	4.87 ppbv	0.5	ppbv	5.00	ppbv	97.4	70-130		
trans-1,3-Dichloropropene	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Trichloroethylene	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130		
Trichlorofluoromethane	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Vinyl acetate	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130		
Vinyl bromide	4.45 ppbv	0.5	ppbv	5.00	ppbv	89.0	70-130		
Vinyl chloride	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130		
Xylenes, Total	17.9 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	5.36		ppbv	5.00	ppbv	107	70-130		

##### LCS Dup (BZF0457-BSD1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	5.71 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	1.41	25
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
1,1,2,2-Tetrachloroethane	6.00 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	0.669	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	2.85	25
1,1,2-Trichloroethane	5.65 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	0.355	25
1,1-Dichloroethane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.56	25
1,1-Dichloroethylene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	3.35	25
1,2,4-Trimethylbenzene	6.11 ppbv	0.5	ppbv	5.00	ppbv	122	70-130	0.653	25
1,2-Dibromoethane (EDB)	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.07	25
1,2-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130	0.840	25
1,2-Dichloroethane	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	3.16	25
1,2-Dichloropropane	5.48 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	2.96	25
1,2-Dichlorotetrafluoroethane	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130	9.54	25
1,3,5-Trimethylbenzene	5.95 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	0.675	25
1,3-Butadiene	4.48 ppbv	0.5	ppbv	5.00	ppbv	89.6	70-130	3.64	25
1,3-Dichlorobenzene	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130	1.85	25
1,4-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130	0.840	25
1,4-Dioxane	6.60 ppbv	0.5	ppbv	5.00	ppbv	132	70-130	3.70	25

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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	
<b>Batch BZF0457 - No Prep VOC</b>									
<b>LCS Dup (BZF0457-BSD1)</b>					Prepared & Analyzed: 06/18/2016				
2-Butanone (MEK)	5.14 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	1.57	25
4-Methyl-2-pentanone (MIBK)	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	5.09	25
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
Allyl chloride	4.57 ppbv	0.5	ppbv	5.00	ppbv	91.4	70-130	5.12	25
Benzene	5.69 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	3.40	25
Benzyl Chloride	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	0.00	25
Bromodichloromethane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	2.91	25
Bromoform	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.82	25
Bromomethane	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130	1.26	25
Carbon Disulfide	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	3.95	25
Carbon Tetrachloride	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	2.97	25
Chlorobenzene	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.946	25
Chloroethane	5.07 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	4.62	25
Chloroform	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.00	25
Chloromethane	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	12.8	25
cis-1,2-Dichloroethylene	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	2.77	25
cis-1,3-Dichloropropene	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	1.40	25
Cyclohexane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	4.07	25
Dichlorodifluoromethane	5.33 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	10.7	25
Ethyl acetate	3.87 ppbv	0.5	ppbv	5.00	ppbv	77.4	70-130	0.259	25
Ethylbenzene	5.94 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	0.00	25
Heptane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.953	25
Hexane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	2.71	25
Isopropylbenzene	6.14 ppbv	0.50	ppbv		ppbv		70-130	0.982	25
m+p-Xylenes	11.7 ppbv	1	ppbv	10.0	ppbv	117	70-130	1.69	25
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
Methylene chloride	4.89 ppbv	1.00	ppbv		ppbv		70-130	4.18	25
Methyl-t-butyl ether (MTBE)	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.987	25
o-Xylene	6.14 ppbv	0.5	ppbv	5.00	ppbv	123	70-130	1.81	25
Propylene	3.84 ppbv	0.5	ppbv	5.00	ppbv	76.8	70-130	3.08	25
Styrene	6.01 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	1.16	25
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		25
Tetrachloroethylene (PCE)	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.26	25
Tetrahydrofuran	6.41 ppbv	0.5	ppbv	5.00	ppbv	128	70-130	4.30	25
Toluene	5.80 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	1.04	25
trans-1,2-Dichloroethylene	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	3.63	25
trans-1,3-Dichloropropene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	3.48	25



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## Certificate of Analysis

Final Report

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Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	
<b>Batch BZF0457 - No Prep VOC</b>									
<b>LCS Dup (BZF0457-BSD1)</b>					Prepared & Analyzed: 06/18/2016				
Trichloroethylene	5.75 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	6.46	25
Trichlorofluoromethane	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	2.35	25
Vinyl acetate	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	0.411	25
Vinyl bromide	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130	7.98	25
Vinyl chloride	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	3.55	25
Xylenes, Total	17.8 ppbv	1.50	ppbv		ppbv		70-130	0.503	25
<i>Surr: 4-Bromofluorobenzene</i>	<i>5.19</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>104</i>	<i>70-130</i>		

### Batch BZF0488 - No Prep VOC

<b>Blank (BZF0488-BLK1)</b>				Prepared & Analyzed: 06/16/2016					
1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv						
1,1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv						
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv						
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv						
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv						
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv						
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv						
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv						
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv						
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv						
1,3-Butadiene	<0.20 ppbv	0.50	ppbv						
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv						
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv						
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv						
Acrolein	<0.20 ppbv	0.50	ppbv						
Allyl chloride	<0.20 ppbv	0.50	ppbv						
Benzene	<0.20 ppbv	0.50	ppbv						
Benzyl Chloride	<0.20 ppbv	0.50	ppbv						
Bromodichloromethane	<0.20 ppbv	0.50	ppbv						
Bromoform	<0.20 ppbv	0.50	ppbv						
Bromomethane	<0.20 ppbv	0.50	ppbv						





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### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0488 - No Prep VOC

##### Blank (BZF0488-BLK1)

Prepared & Analyzed: 06/16/2016

Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Cyclohexane	<0.20 ppbv	0.50	ppbv
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv
Ethyl acetate	<0.20 ppbv	0.50	ppbv
Ethylbenzene	<0.20 ppbv	0.50	ppbv
Heptane	<0.20 ppbv	0.50	ppbv
Hexane	<0.20 ppbv	0.50	ppbv
Isopropylbenzene	<0.20 ppbv	0.50	ppbv
m+p-Xylenes	<0.40 ppbv	1.00	ppbv
Methyl methacrylate	<0.20 ppbv	0.50	ppbv
Methylene chloride	<0.50 ppbv	1.00	ppbv
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv
o-Xylene	<0.20 ppbv	0.50	ppbv
Propylene	<0.20 ppbv	0.50	ppbv
Styrene	<0.20 ppbv	0.50	ppbv
TBA	<0.50 ppbv	0.50	ppbv
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv
Toluene	<0.20 ppbv	0.50	ppbv
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv
Trichloroethylene	<0.20 ppbv	0.50	ppbv
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv
Vinyl acetate	<0.20 ppbv	0.50	ppbv
Vinyl bromide	<0.20 ppbv	0.50	ppbv
Vinyl chloride	<0.20 ppbv	0.50	ppbv
Xylenes, Total	<0.60 ppbv	1.50	ppbv

Surr: 4-Bromofluorobenzene 5.35 ppbv 5.00 107 80-120



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0488 - No Prep VOC

##### LCS (BZF0488-BS1)

Prepared & Analyzed: 06/16/2016

1,1,1-Trichloroethane	4.60 ppbv	0.5	ppbv	5.00	ppbv	92.0	70-130		
1,1,1,2-Tetrachloroethane	0.36 ppbv	0.50	ppbv		ppbv		70-130		
1,1,2,2-Tetrachloroethane	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane	4.25 ppbv	0.5	ppbv	5.00	ppbv	85.0	70-130		
1,1,2-Trichloroethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
1,1-Dichloroethane	4.42 ppbv	0.5	ppbv	5.00	ppbv	88.4	70-130		
1,1-Dichloroethylene	4.44 ppbv	0.5	ppbv	5.00	ppbv	88.8	70-130		
1,2,4-Trimethylbenzene	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130		
1,2-Dibromoethane (EDB)	4.70 ppbv	0.5	ppbv	5.00	ppbv	94.0	70-130		
1,2-Dichlorobenzene	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130		
1,2-Dichloroethane	4.48 ppbv	0.5	ppbv	5.00	ppbv	89.6	70-130		
1,2-Dichloropropane	4.50 ppbv	0.5	ppbv	5.00	ppbv	90.0	70-130		
1,2-Dichlorotetrafluoroethane	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130		
1,3,5-Trimethylbenzene	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130		
1,3-Dichlorobenzene	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
1,4-Dichlorobenzene	4.53 ppbv	0.5	ppbv	5.00	ppbv	90.6	70-130		
1,4-Dioxane	4.54 ppbv	0.5	ppbv	5.00	ppbv	90.8	70-130		
Acrolein	0.66 ppbv	0.50	ppbv		ppbv		70-130		
Allyl chloride	4.05 ppbv	0.5	ppbv	5.00	ppbv	81.0	70-130		
Benzene	4.47 ppbv	0.5	ppbv	5.00	ppbv	89.4	70-130		
Bromodichloromethane	4.41 ppbv	0.5	ppbv	5.00	ppbv	88.2	70-130		
Bromoform	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130		
Bromomethane	4.51 ppbv	0.5	ppbv	5.00	ppbv	90.2	70-130		
Carbon Disulfide	3.67 ppbv	0.5	ppbv	5.00	ppbv	73.4	70-130		
Carbon Tetrachloride	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130		
Chlorobenzene	4.51 ppbv	0.5	ppbv	5.00	ppbv	90.2	70-130		
Chloroethane	4.34 ppbv	0.5	ppbv	5.00	ppbv	86.8	70-130		
Chloroform	4.45 ppbv	0.5	ppbv	5.00	ppbv	89.0	70-130		
Chloromethane	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130		
cis-1,2-Dichloroethylene	4.20 ppbv	0.5	ppbv	5.00	ppbv	84.0	70-130		
cis-1,3-Dichloropropene	4.43 ppbv	0.5	ppbv	5.00	ppbv	88.6	70-130		
Cyclohexane	4.22 ppbv	0.5	ppbv	5.00	ppbv	84.4	70-130		
Dichlorodifluoromethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
Ethylbenzene	4.75 ppbv	0.5	ppbv	5.00	ppbv	95.0	70-130		
Isopropylbenzene	4.90 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	9.33 ppbv	1	ppbv	10.0	ppbv	93.3	70-130		
Methylene chloride	4.13 ppbv	1.00	ppbv		ppbv		70-130		



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0488 - No Prep VOC

##### LCS (BZF0488-BS1)

Prepared & Analyzed: 06/16/2016

Methyl-t-butyl ether (MTBE)	4.43 ppbv	0.5	ppbv	5.00	ppbv	88.6	70-130		
o-Xylene	4.73 ppbv	0.5	ppbv	5.00	ppbv	94.6	70-130		
Propylene	4.10 ppbv	0.5	ppbv	5.00	ppbv	82.0	70-130		
Styrene	4.53 ppbv	0.5	ppbv	5.00	ppbv	90.6	70-130		
Tetrachloroethylene (PCE)	4.32 ppbv	0.5	ppbv	5.00	ppbv	86.4	70-130		
Tetrahydrofuran	4.97 ppbv	0.5	ppbv	5.00	ppbv	99.4	70-130		
Toluene	4.40 ppbv	0.5	ppbv	5.00	ppbv	88.0	70-130		
trans-1,2-Dichloroethylene	4.22 ppbv	0.5	ppbv	5.00	ppbv	84.4	70-130		
trans-1,3-Dichloropropene	4.58 ppbv	0.5	ppbv	5.00	ppbv	91.6	70-130		
Trichloroethylene	4.09 ppbv	0.5	ppbv	5.00	ppbv	81.8	70-130		
Trichlorofluoromethane	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130		
Vinyl bromide	4.14 ppbv	0.5	ppbv	5.00	ppbv	82.8	70-130		
Vinyl chloride	4.56 ppbv	0.5	ppbv	5.00	ppbv	91.2	70-130		
Xylenes, Total	14.1 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	<i>5.30</i>		<i>ppbv</i>	<i>5.00</i>	<i>ppbv</i>	<i>106</i>	<i>70-130</i>		

##### LCS Dup (BZF0488-BSD1)

Prepared & Analyzed: 06/16/2016

1,1,1-Trichloroethane	4.80 ppbv	0.5	ppbv	5.00	ppbv	96.0	70-130	4.26	25
1,1,1,2-Tetrachloroethane	0.38 ppbv	0.50	ppbv		ppbv		70-130	5.41	25
1,1,2,2-Tetrachloroethane	5.30 ppbv	0.5	ppbv	5.00	ppbv	106	70-130	3.65	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.38 ppbv	0.5	ppbv	5.00	ppbv	87.6	70-130	3.01	25
1,1,2-Trichloroethane	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	3.95	25
1,1-Dichloroethane	4.58 ppbv	0.5	ppbv	5.00	ppbv	91.6	70-130	3.56	25
1,1-Dichloroethylene	4.60 ppbv	0.5	ppbv	5.00	ppbv	92.0	70-130	3.54	25
1,2,4-Trimethylbenzene	5.03 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	5.31	25
1,2-Dibromoethane (EDB)	4.89 ppbv	0.5	ppbv	5.00	ppbv	97.8	70-130	3.96	25
1,2-Dichlorobenzene	5.11 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	6.26	25
1,2-Dichloroethane	4.68 ppbv	0.5	ppbv	5.00	ppbv	93.6	70-130	4.37	25
1,2-Dichloropropane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130	4.77	25
1,2-Dichlorotetrafluoroethane	4.75 ppbv	0.5	ppbv	5.00	ppbv	95.0	70-130	1.91	25
1,3,5-Trimethylbenzene	5.00 ppbv	0.5	ppbv	5.00	ppbv	100	70-130	4.71	25
1,3-Dichlorobenzene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	5.51	25
1,4-Dichlorobenzene	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130	5.37	25
Acrolein	0.67 ppbv	0.50	ppbv		ppbv		70-130	1.50	25
Allyl chloride	4.08 ppbv	0.5	ppbv	5.00	ppbv	81.6	70-130	0.738	25
Benzene	4.53 ppbv	0.5	ppbv	5.00	ppbv	90.6	70-130	1.33	25



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0488 - No Prep VOC

#### LCS Dup (BZF0488-BSD1)

Prepared & Analyzed: 06/16/2016

Bromodichloromethane	4.52 ppbv	0.5	ppbv	5.00	ppbv	90.4	70-130	2.46	25	
Bromoform	4.89 ppbv	0.5	ppbv	5.00	ppbv	97.8	70-130	4.18	25	
Bromomethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130	4.55	25	
Carbon Disulfide	3.78 ppbv	0.5	ppbv	5.00	ppbv	75.6	70-130	2.95	25	
Carbon Tetrachloride	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130	4.89	25	
Chlorobenzene	4.64 ppbv	0.5	ppbv	5.00	ppbv	92.8	70-130	2.84	25	
Chloroethane	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130	7.11	25	
Chloroform	4.59 ppbv	0.5	ppbv	5.00	ppbv	91.8	70-130	3.10	25	
Chloromethane	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130	2.10	25	
cis-1,2-Dichloroethylene	4.37 ppbv	0.5	ppbv	5.00	ppbv	87.4	70-130	3.97	25	
cis-1,3-Dichloropropene	4.66 ppbv	0.5	ppbv	5.00	ppbv	93.2	70-130	5.06	25	
Cyclohexane	4.47 ppbv	0.5	ppbv	5.00	ppbv	89.4	70-130	5.75	25	
Dichlorodifluoromethane	4.93 ppbv	0.5	ppbv	5.00	ppbv	98.6	70-130	4.35	25	
Ethyl acetate	4.07 ppbv	0.5	ppbv	5.00	ppbv	81.4	70-130	22.4	25	
Ethylbenzene	4.94 ppbv	0.5	ppbv	5.00	ppbv	98.8	70-130	3.92	25	
Isopropylbenzene	5.15 ppbv	0.50	ppbv		ppbv		70-130	4.98	25	
m+p-Xylenes	9.89 ppbv	1	ppbv	10.0	ppbv	98.9	70-130	5.83	25	
Methylene chloride	4.40 ppbv	1.00	ppbv		ppbv		70-130	6.33	25	
Methyl-t-butyl ether (MTBE)	4.64 ppbv	0.5	ppbv	5.00	ppbv	92.8	70-130	4.63	25	
o-Xylene	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	6.54	25	
Propylene	4.35 ppbv	0.5	ppbv	5.00	ppbv	87.0	70-130	5.92	25	
Styrene	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130	6.20	25	
Tetrachloroethylene (PCE)	4.50 ppbv	0.5	ppbv	5.00	ppbv	90.0	70-130	4.08	25	
Tetrahydrofuran	5.20 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	4.52	25	
Toluene	4.47 ppbv	0.5	ppbv	5.00	ppbv	89.4	70-130	1.58	25	
trans-1,2-Dichloroethylene	4.23 ppbv	0.5	ppbv	5.00	ppbv	84.6	70-130	0.237	25	
trans-1,3-Dichloropropene	4.87 ppbv	0.5	ppbv	5.00	ppbv	97.4	70-130	6.14	25	
Trichloroethylene	4.32 ppbv	0.5	ppbv	5.00	ppbv	86.4	70-130	5.47	25	
Trichlorofluoromethane	4.94 ppbv	0.5	ppbv	5.00	ppbv	98.8	70-130	4.77	25	
Vinyl acetate	8.14 ppbv	0.5	ppbv	5.00	ppbv	163	70-130	12.9	25	L
Vinyl bromide	4.30 ppbv	0.5	ppbv	5.00	ppbv	86.0	70-130	3.79	25	
Vinyl chloride	4.77 ppbv	0.5	ppbv	5.00	ppbv	95.4	70-130	4.50	25	
Xylenes, Total	14.9 ppbv	1.50	ppbv		ppbv		70-130	6.07	25	

Surr: 4-Bromofluorobenzene 5.34 ppbv 5.00 ppbv 107 70-130



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 3, 2016 16:58  
Date Issued: June 21, 2016 12:05

Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

### Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications
<i>EPA TO-15 in Air</i>		Isopropylbenzene	VELAP
1,1,1-Trichloroethane	VELAP	m+p-Xylenes	VELAP
1,1,1,2-Tetrachloroethane	VELAP	Methyl methacrylate	VELAP
1,1,2,2-Tetrachloroethane	VELAP	Methylene chloride	VELAP
1,1,2-Trichloro-1,2,2-trifluoroethane	VELAP	Methyl-t-butyl ether (MTBE)	VELAP
1,1,2-Trichloroethane	VELAP	Naphthalene	VELAP
1,1-Dichloroethane	VELAP	o-Xylene	VELAP
1,1-Dichloroethylene	VELAP	Propylene	VELAP
1,2,4-Trimethylbenzene	VELAP	Styrene	VELAP
1,2-Dibromoethane (EDB)	VELAP	TBA	VELAP
1,2-Dichlorobenzene	VELAP	Tetrachloroethylene (PCE)	VELAP
1,2-Dichloroethane	VELAP	Tetrahydrofuran	VELAP
1,2-Dichloropropane	VELAP	Toluene	VELAP
1,2-Dichlorotetrafluoroethane	VELAP	trans-1,2-Dichloroethylene	VELAP
1,3,5-Trimethylbenzene	VELAP	trans-1,3-Dichloropropene	VELAP
1,3-Butadiene	VELAP	Trichloroethylene	VELAP
1,3-Dichlorobenzene	VELAP	Trichlorofluoromethane	VELAP
1,4-Dichlorobenzene	VELAP	Vinyl acetate	VELAP
1,4-Dioxane	VELAP	Vinyl bromide	VELAP
2-Butanone (MEK)	VELAP	Vinyl chloride	VELAP
4-Methyl-2-pentanone (MIBK)	VELAP	Xylenes, Total	VELAP
Acrolein	VELAP		
Allyl chloride	VELAP		
Benzene	VELAP		
Benzyl Chloride	VELAP		
Bromodichloromethane	VELAP		
Bromoform	VELAP		
Bromomethane	VELAP		
Carbon Disulfide	VELAP		
Carbon Tetrachloride	VELAP		
Chlorobenzene	VELAP		
Chloroethane	VELAP		
Chloroform	VELAP		
Chloromethane	VELAP		
cis-1,2-Dichloroethylene	VELAP		
cis-1,3-Dichloropropene	VELAP		
Cyclohexane	VELAP		
Dichlorodifluoromethane	VELAP		
Ethyl acetate	VELAP		
Ethylbenzene	VELAP		
Heptane	VELAP		
Hexane	VELAP		



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# Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
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Date Received: June 3, 2016 16:58  
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Submitted To: Joe France

Project Number: 36156.006

Client Site I.D.: Fulton Gasworks - Air

Purchase Order:

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2016
NC	North Carolina DENR	495	12/31/2016
PADEP	NELAC-Pennsylvania	001	10/31/2016
VELAP Certificate #4337	NELAC-Virginia Certificate #8271	460021	06/15/2017
WVDEP	West Virginia DEP	350	11/30/2016

## Qualifiers and Definitions

L LCS recovery is outside of established acceptance limits

S Surrogate recovery was outside acceptance criteria

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

PF Preparation Factor

MDL Method Detection Limit

LOQ Limit of Quantitation

ppbv parts per billion by volume

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

## AIR ANALYSIS CHAIN OF CUSTODY

1 of 5

COMPANY NAME: Timmons Group	INVOICE TO: John Russell	PROJECT NAME/Quote #: Fulton
CONTACT: John Russell	INVOICE CONTACT:	SITE NAME: Fulton
ADDRESS: 1001 Boulders Pkwy Suite 300	INVOICE ADDRESS: 1001 Boulders Pkwy Ste 300	PROJECT NUMBER: 36156.006
PHONE #: 804-200-6427	INVOICE PHONE #: 804-200-6427	P.O. #:
FAX #:	EMAIL: john.russell@timmons.com	

SAMPLER NAME (PRINT): Julia Campos	SAMPLER SIGNATURE: Julia Campos	Turn Around Time: STD Day(s)
------------------------------------	---------------------------------	------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other

CLIENT SAMPLE I.D.	Regulator Info		Canister Information					Sampling Start Information				Sampling Stop Information				ANALYSIS	
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister vacuum (in Hg)	Barometric Pres. (in Hg):	Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)		Ending Sample Temp °F
1) VP-1	N/A	N/A	#16072	1	160525-01	30	2	30.04	6/3	8:58	\	76°F	6/3	10:25	\	78	SG X
2) VP-2	N/A	N/A	#16073	1	160525-01	30	2	30.04	6/3	9:04	\	76°F	6/3	10:27	\	78	SG X
3) VP-3	N/A	N/A	#16074	1	160525-01	30	0	30.04	6/3	9:07	\	76°F	6/3	10:30	\	78	SG X
4) VP-4	N/A	N/A	#16174	1	160525-03	30	3	30.04	6/3	9:11	\	76°F		10:32	\	78	SG X

RELINQUISHED: [Signature]	DATE / TIME: 6/3/16 3:19	RECEIVED: [Signature]	DATE / TIME: 6-3-16 10:55	QC Data Package	LAB USE ONLY
RELINQUISHED: [Signature]	DATE / TIME: 6/3/16 4:50	RECEIVED: [Signature]	DATE / TIME: 6-3-16 10:55	Level I <input type="checkbox"/>	TG Fulton Gasworks - Air Recd: 06/03/2016 Due: 06/17/2016 16F0127
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

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v130325002

## AIR ANALYSIS CHAIN OF CUSTODY

2 of 5

COMPANY NAME: <i>Timmons Group</i>	INVOICE TO: <i>Timmons Group</i>	PROJECT NAME/Quote #: <i>Fulton</i>
CONTACT: <i>John Russell</i>	INVOICE CONTACT: <i>John Russell</i>	SITE NAME: <i>Fulton</i>
ADDRESS: <i>1001 Boulders Pkwy Ste 300</i>	INVOICE ADDRESS: <i>1001 Boulders Pkwy Ste 300</i>	PROJECT NUMBER: <i>36156.006</i>
PHONE #: <i>804-200-6427</i>	INVOICE PHONE #: <i>804-200-6427</i>	P.O. #:
FAX #:	EMAIL: <i>John.Russell@timmons.com</i>	

SAMPLER NAME (PRINT): <i>Julia Campus</i>	SAMPLER SIGNATURE: <i>Julia Campus</i>	Turn Around Time: <i>STD</i> Day(s)
---	--	-------------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other \_\_\_\_\_

CLIENT SAMPLE I.D.	Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				Matrix (See Codes)	ANALYSIS	
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister vacuum (in Hg)	Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)			Ending Sample Temp °F
1) <i>VP-5</i>	<i>N/A</i>	<i>N/A</i>	<i>#16076</i>	<i>1</i>	<i>160525-01</i>	<i>30</i>	<i>2</i>	<i>6/3</i>	<i>9:20</i>	<i>/</i>	<i>76°F</i>	<i>6/3</i>	<i>10:36</i>	<i>/</i>	<i>78</i>	<i>SG</i>	<i>X</i>
2) <i>VP-6</i>	<i>N/A</i>	<i>N/A</i>	<i>#16077</i>	<i>1</i>	<i>160525-01</i>	<i>30</i>	<i>2</i>	<i>6/3</i>	<i>9:23</i>	<i>/</i>	<i>76</i>	<i>6/3</i>	<i>10:38</i>	<i>/</i>	<i>78</i>	<i>SG</i>	<i>✓</i>
3) <i>VP-7</i>	<i>N/A</i>	<i>N/A</i>	<i>#16078</i>	<i>1</i>	<i>160525-01</i>	<i>30</i>	<i>2</i>	<i>6/3</i>	<i>9:28</i>	<i>/</i>	<i>76</i>	<i>6/3</i>	<i>10:41</i>	<i>/</i>	<i>79</i>	<i>SG</i>	<i>X</i>
4) <i>VP-8</i>	<i>N/A</i>	<i>N/A</i>	<i>#16079</i>	<i>1</i>	<i>160525-01</i>	<i>30</i>	<i>4</i>	<i>6/3</i>	<i>9:32</i>	<i>/</i>	<i>76</i>	<i>6/3</i>	<i>10:43</i>	<i>/</i>	<i>78</i>	<i>SG</i>	<i>X</i>

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 3:19</i>	RECEIVED:	DATE / TIME:	QC Data Package	LAB USE ONLY
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 4:50</i>	RECEIVED: <i>[Signature]</i>	DATE / TIME: <i>6-3-16 11:58</i>	Level I <input type="checkbox"/>	<b>TG</b> <b>Fulton Gasworks - Air</b> <b>16F0127</b> <b>Recd: 06/03/2016 Due: 06/17/2016</b>
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

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v130325002



## AIR ANALYSIS CHAIN OF CUSTODY

COMPANY NAME: <i>Timmons Group</i>	INVOICE TO: <i>Timmons Group</i>	PROJECT NAME/Quote #: <i>Fulton</i>
CONTACT: <i>John Russell</i>	INVOICE CONTACT: <i>John Russell</i>	SITE NAME: <i>Fulton</i>
ADDRESS: <i>1001 Boulder's Alley Ste 300</i>	INVOICE ADDRESS: <i>1001 Boulder's Alley Ste 300</i>	PROJECT NUMBER: <i>36156-006</i>
PHONE #: <i>804-200-6427</i>	INVOICE PHONE #: <i>804-200-6427</i>	P.O. #:
FAX #:	EMAIL: <i>john.russell@timmons.com</i>	

SAMPLER NAME (PRINT): <i>Julia Campus</i>	SAMPLER SIGNATURE: <i>Julia Campus</i>	Turn Around Time: <i>5</i> Day(s)
---	--	-----------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other \_\_\_\_\_

CLIENT SAMPLE I.D.	Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				ANALYSIS
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister vacuum (in Hg)	Barometric Pres. (in Hg)	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp *F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)	
1) <i>VP-9</i>	<i>N/A</i>	<i>N/A</i>	<i>#16703</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>30</i>	<i>30.04</i>	<i>6/3 9:36</i>	<i>-</i>	<i>76</i>	<i>6/3 10:45</i>	<i>-</i>	<i>78</i>	<i>SG X</i>
2) <i>VP-10</i>	<i>N/A</i>	<i>N/A</i>	<i>#16080</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3 9:41</i>	<i>-</i>	<i>76</i>	<i>6/3 10:49</i>	<i>-</i>	<i>79</i>	<i>SG X</i>
3) <i>VP-11</i>	<i>N/A</i>	<i>N/A</i>	<i>#16082</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3 9:46</i>	<i>-</i>	<i>76</i>	<i>6/3 10:51</i>	<i>-</i>	<i>79</i>	<i>SG X</i>
4) <i>VP-12</i>	<i>N/A</i>	<i>N/A</i>	<i>#16083</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3 9:50</i>	<i>-</i>	<i>76</i>	<i>6/3 10:54</i>	<i>-</i>	<i>79</i>	<i>SG X</i>

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 3:19</i>	RECEIVED:	DATE / TIME: <i>6/3/16 11:58</i>	QC Data Package	LAB USE ONLY
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 4:50</i>	RECEIVED:	DATE / TIME: <i>6/3/16 11:58</i>	Level I <input type="checkbox"/>	<p><b>TG</b> <b>Fulton Gasworks - Air</b> <b>16F0127</b> <b>Recd: 06/03/2016 Due: 06/17/2016</b></p>
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

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v130325002

## AIR ANALYSIS CHAIN OF CUSTODY

4 of 5

COMPANY NAME: <i>Timmons Group</i>	INVOICE TO: <i>Timmons Group</i>	PROJECT NAME/Quote #: <i>Fulton</i>
CONTACT: <i>John Russell</i>	INVOICE CONTACT: <i>John Russell</i>	SITE NAME: <i>Fulton</i>
ADDRESS: <i>1001 Boniders Hwy Ste 300</i>	INVOICE ADDRESS: <i>1001 Boniders Hwy Ste 300</i>	PROJECT NUMBER: <i>36156.006</i>
PHONE #: <i>804-200-6427</i>	INVOICE PHONE #: <i>804-200-6427</i>	P.O. #:
FAX #:	EMAIL: <i>john.russell@timmons.com</i>	

SAMPLER NAME (PRINT): <i>Julia Campos</i>	SAMPLER SIGNATURE: <i>Julia Campos</i>	Turn Around Time: <i>500</i> Day(s)
---	--	-------------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other \_\_\_\_\_

CLIENT SAMPLE I.D.	Regulator Info		Canister Information					Sampling Start Information				Sampling Stop Information				ANALYSIS		
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister vacuum (in Hg)	Barometric Pres. (in Hg):	Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp *F	Stop Date	Stop Time (24hr clock)	Final Canister Vacuum (in Hg)		Ending Sample Temp *F	Matrix (See Codes)
1) <i>VP-13</i>	<i>N/A</i>	<i>N/A</i>	<i>#16084</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3</i>	<i>9:57</i>	<i>-</i>	<i>76</i>	<i>6/3</i>	<i>10:58</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
2) <i>VP-14</i>	<i>N/A</i>	<i>N/A</i>	<i>#16085</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3</i>	<i>10:02</i>	<i>-</i>	<i>76</i>	<i>6/3</i>	<i>11:01</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
3) <i>VP-15</i>	<i>N/A</i>	<i>N/A</i>	<i>#16086</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3</i>	<i>10:06</i>	<i>-</i>	<i>76</i>	<i>6/3</i>	<i>11:06</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
4) <i>VP-16</i>	<i>N/A</i>	<i>N/A</i>	<i>#16045</i>	<i>1</i>	<i>160525-02</i>	<i>30</i>	<i>2</i>	<i>30.05</i>	<i>6/3</i>	<i>10:10</i>	<i>-</i>	<i>76</i>	<i>6/3</i>	<i>11:03</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 3:19</i>	RECEIVED:	DATE / TIME:	QC Data Package	LAB USE ONLY
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 4:50</i>	RECEIVED: <i>[Signature]</i>	DATE / TIME: <i>6-3-16 10:58</i>	Level I <input type="checkbox"/>	<b>TG 16F0127</b> <b>Fulton Gasworks - Air</b> <b>Recd: 06/03/2016 Due: 06/17/2016</b>
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

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## AIR ANALYSIS CHAIN OF CUSTODY

5 of 5

COMPANY NAME: <i>Timmons Group</i>	INVOICE TO: <i>Timmons Group</i>	PROJECT NAME/Quote #: <i>Fulton</i>
CONTACT: <i>John Russell</i>	INVOICE CONTACT: <i>John Russell</i>	SITE NAME: <i>Fulton</i>
ADDRESS: <i>1001 Boulders Hwy Ste 300</i>	INVOICE ADDRESS: <i>1001 Boulders Hwy Ste 300</i>	PROJECT NUMBER: <i>36156.006</i>
PHONE #: <i>804-200-6427</i>	INVOICE PHONE #: <i>804-200-6427</i>	P.O. #:
FAX #:	EMAIL: <i>john.russell@timmons.com</i>	

SAMPLER NAME (PRINT): <i>Julia Campos</i>	SAMPLER SIGNATURE: <i>Julia Campos</i>	Turn Around Time: <i>570</i> Day(s)
---	--	-------------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other \_\_\_\_\_

CLIENT SAMPLE I.D.	Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information				ANALYSIS				
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister vacuum (in Hg)	Barometric Pres. (in Hg): <i>30.04</i>	Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp *F	Barometric Pres. (in Hg): <i>30.05</i>	Stop Date		Stop Time (24hr clock)	Final Canister Vacuum (in Hg)	Ending Sample Temp *F	Matrix (See Codes)
1) <i>VP-17</i>	<i>N/A</i>	<i>N/A</i>	<i>#16173</i>	<i>1</i>	<i>160525-03</i>	<i>30</i>	<i>2</i>	<i>30.04</i>	<i>6/3</i>	<i>10:15</i>	<i>-</i>	<i>76</i>	<i>30.05</i>	<i>6/3</i>	<i>11:04</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
2) <i>VP-18</i>	<i>N/A</i>	<i>N/A</i>	<i>#16166</i>	<i>1</i>	<i>160525-03</i>	<i>30</i>	<i>2</i>	<i>30.04</i>	<i>6/3</i>	<i>10:18</i>	<i>-</i>	<i>78</i>	<i>30.05</i>	<i>6/3</i>	<i>11:11</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
3) <i>VP-19</i>	<i>N/A</i>	<i>N/A</i>	<i>#16169</i>	<i>1</i>	<i>160525-03</i>	<i>30</i>	<i>2</i>	<i>30.04</i>	<i>6/3</i>	<i>10:22</i>	<i>-</i>	<i>78</i>	<i>30.05</i>	<i>6/3</i>	<i>11:14</i>	<i>/</i>	<i>81</i>	<i>SG</i>	<i>X</i>
4)	<i>N/A</i>	<i>N/A</i>	<i>#16170</i>	<i>1</i>	<i>160525-03</i>	<i>30</i>													

RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 3:19</i>	RECEIVED:	DATE / TIME:	QC Data Package	LAB USE ONLY
RELINQUISHED: <i>[Signature]</i>	DATE / TIME: <i>6/3/16 4:50</i>	RECEIVED: <i>[Signature]</i>	DATE / TIME:	Level I <input type="checkbox"/>	<b>TG</b> <b>Fulton Gasworks - Air</b> <b>16F0127</b> <b>Recd: 06/03/2016 Due: 06/17/2016</b>
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

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1941 Reymet Road • Richmond, Virginia 23237 • Tel : (804) 358-8295 Fax: (804) 358-8297

### Sample Conditions Checklist

Opened by: (Initials)

K. Shon

Lab ID No.:

11F0127

Date Cooler Opened:

6-6-16

		YES	NO	N/A
1.	How were samples received? Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Walk In <input checked="" type="checkbox"/>			
2.	Were custody seals used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3.	If yes, are custody seals unbroken and intact at the date and time of arrival?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4.	Are the custody papers filled out completely and correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	Do all bottle labels agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7.	Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8.	If NO, are the samples just taken and received on ice?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9.	Are all samples within holding time for requested laboratory tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10.	Is a sufficient amount of sample provided to perform the tests indicated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11.	Are all samples in proper containers for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12.	Are all samples appropriately preserved for the analyses requested?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13.	Are all volatile organic containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14.	Are all TOX containers free of headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15.	Is Trip blank provided with each VOC sample set? Circle applicable method: (Document if trip blank is not received with the sample set)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	EPA 8011    EPA 504    EPA 8260    EPA 624			
	RSK-175    EPA 8015 (GRO)    EPA 8021			
	EPA 524    *GRO Wisconsin DNR (water and/or methanol trip blank must be provided)			

\* See preservation log for Wisconsin soil DRO.

**COMMENTS**

Per John Russell & Joe France - samples to be logged & invoiced under France Environmental @ 6/7/16

**FOR LAB USE ONLY:**

CrVI preserved date/time: \_\_\_\_\_

Buffer Sol'n ID: \_\_\_\_\_

Analyst initials: \_\_\_\_\_

1N NaOH ID: \_\_\_\_\_ or

5N NaOH ID: \_\_\_\_\_

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED  
 F1302 Sample Condition 6\_0.xls



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0127

Client Name:	France Environmental, Inc. 7834 Forest Hill Ave. Suite 7 Richmond, VA 23225	Date Received:	June 3, 2016 16:58
		Date Issued:	June 21, 2016 12:05
Submitted To:	Joe France	Project Number:	36156.006
Client Site I.D.:	Fulton Gasworks - Air	Purchase Order:	

### Sample Conditions Checklist

Samples Received at:	22.00°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	Yes
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved. Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes



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## Certificate of Analysis

*Final Report*

Laboratory Order ID 16F0320

Client Name:	France Environmental, Inc. 7834 Forest Hill Ave. Suite 7 Richmond, VA 23225	Date Received:	June 10, 2016 12:35
		Date Issued:	June 20, 2016 16:08
		Project Number:	34323.022
Submitted To:	Joe France	Purchase Order:	
Client Site I.D.:	Fulton Gas Works		

Enclosed are the results of analyses for samples received by the laboratory on 06/10/2016 12:35. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

Ted Soyars  
Laboratory Manager

### End Notes:

The test results listed in this report relate only to the samples submitted to the laboratory and as received by the Laboratory.

Unless otherwise noted, the test results for solid materials are calculated on a wet weight basis. Analyses for pH, dissolved oxygen, temperature, residual chlorine and sulfite that are performed in the laboratory do not meet NELAC requirements due to extremely short holding times. These analyses should be performed in the field. The results of field analyses performed by the Sampler included in the Certificate of Analysis are done so at the client's request and are not included in the laboratory's fields of certification nor have they been audited for adherence to a reference method or procedure.

The signature on the final report certifies that these results conform to all applicable NELAC standards unless otherwise specified. For a complete list of the Laboratory's NELAC certified parameters please contact customer service.

This report shall not be reproduced except in full without the expressed and written approval of an authorized





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## Certificate of Analysis

### Final Report

Laboratory Order ID 16F0320

Client Name: France Environmental, Inc. Date Received: June 10, 2016 12:35  
7834 Forest Hill Ave. Suite 7 Date Issued: June 20, 2016 16:08  
Richmond, VA 23225 Project Number: 34323.022  
Submitted To: Joe France Purchase Order:  
Client Site I.D.: Fulton Gas Works

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VP-9	16F0320-01	Air	06/10/2016 10:23	06/10/2016 12:35



1941 Reymet Road • Richmond, Virginia 23237 • Tel: (804)-358-8295 Fax: (804)-358-8297

## Certificate of Analysis

Final Report

Laboratory Order ID 16F0320

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### ANALYTICAL RESULTS

Project Location:  
**Field Sample #: VP-9**  
**Sample ID: 16F0320-01**  
Sample Matrix: Air  
Sampled: 6/10/2016 10:23  
Sample Type:

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 16170  
Canister Size:

Initial Vacuum(in Hg): NA  
Final Vacuum(in Hg): NA  
Receipt Vacuum(in Hg):  
Flow Controller Type:  
Flow Controller ID: N/A

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
1,1,1-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/18/16 20:24	RJW	
1,1,1,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/18/16 20:24	RJW	
1,1,2,2-Tetrachloroethane	ND	5.00	12.5		ND	34	86	1	25	6/18/16 20:24	RJW	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.00	12.5		ND	38	96	1	25	6/18/16 20:24	RJW	
1,1,2-Trichloroethane	ND	5.00	12.5		ND	27	68	1	25	6/18/16 20:24	RJW	
1,1-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/18/16 20:24	RJW	
1,1-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/18/16 20:24	RJW	
1,2,4-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/18/16 20:24	RJW	
1,2-Dibromoethane (EDB)	ND	5.00	12.5		ND	38	96	1	25	6/18/16 20:24	RJW	
1,2-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/18/16 20:24	RJW	
1,2-Dichloroethane	ND	5.00	12.5		ND	20	51	1	25	6/18/16 20:24	RJW	
1,2-Dichloropropane	ND	5.00	12.5		ND	23	58	1	25	6/18/16 20:24	RJW	
1,2-Dichlorotetrafluoroethane	ND	5.00	12.5		ND	35	87	1	25	6/18/16 20:24	RJW	
1,3,5-Trimethylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/18/16 20:24	RJW	
1,3-Butadiene	ND	5.00	12.5		ND	11	28	1	25	6/18/16 20:24	RJW	
1,3-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/18/16 20:24	RJW	
1,4-Dichlorobenzene	ND	5.00	12.5		ND	30	75	1	25	6/18/16 20:24	RJW	
1,4-Dioxane	ND	5.00	12.5		ND	18	45	1	25	6/18/16 20:24	RJW	
2-Butanone (MEK)	ND	5.00	12.5		ND	15	37	1	25	6/18/16 20:24	RJW	
4-Methyl-2-pentanone (MIBK)	ND	5.00	12.5		ND	57	140	1	25	6/18/16 20:24	RJW	
Acrolein	ND	5.00	12.5		ND	11	29	1	25	6/18/16 20:24	RJW	
Allyl chloride	ND	5.00	12.5		ND	16	39	1	25	6/18/16 20:24	RJW	
Benzene	ND	5.00	12.5		ND	16	40	1	25	6/18/16 20:24	RJW	
Benzyl Chloride	ND	5.00	12.5		ND	26	65	1	25	6/18/16 20:24	RJW	
Bromodichloromethane	ND	5.00	12.5		ND	34	84	1	25	6/18/16 20:24	RJW	
Bromoform	ND	5.00	12.5		ND	52	130	1	25	6/18/16 20:24	RJW	
Bromomethane	ND	5.00	12.5		ND	19	49	1	25	6/18/16 20:24	RJW	
Carbon Disulfide	ND	12.5	12.5		ND	39	39	1	25	6/18/16 20:24	RJW	
Carbon Tetrachloride	ND	5.00	12.5		ND	31	79	1	25	6/18/16 20:24	RJW	
Chlorobenzene	ND	5.00	12.5		ND	23	58	1	25	6/18/16 20:24	RJW	
Chloroethane	ND	5.00	12.5		ND	13	33	1	25	6/18/16 20:24	RJW	
Chloroform	ND	5.00	12.5		ND	24	61	1	25	6/18/16 20:24	RJW	
Chloromethane	ND	5.00	12.5		ND	10	26	1	25	6/18/16 20:24	RJW	
cis-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/18/16 20:24	RJW	





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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0320

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### ANALYTICAL RESULTS

Project Location:

Sample Description/Location:

Initial Vacuum(in Hg): NA

Field Sample #: VP-9

Sub Description/Location:

Final Vacuum(in Hg): NA

Sample ID: 16F0320-01

Canister ID: 16170

Receipt Vacuum(in Hg):

Sample Matrix: Air

Canister Size:

Flow Controller Type:

Sampled: 6/10/2016 10:23

Flow Controller ID: N/A

Sample Type:

Analyte	EPA TO-15											
	ppbv			Flag/Qual	ug/M <sup>3</sup>			Dilution	PF	Date/Time Analyzed	Analyst	
	Results	MDL	LOQ		Results	MDL	LOQ					
cis-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/18/16 20:24	RJW	
Cyclohexane	ND	5.00	12.5		ND	17	43	1	25	6/18/16 20:24	RJW	
Dichlorodifluoromethane	ND	12.5	12.5		ND	62	62	1	25	6/18/16 20:24	RJW	
Ethyl acetate	ND	5.00	12.5		ND	18	45	1	25	6/18/16 20:24	RJW	
Ethylbenzene	ND	5.00	12.5		ND	22	54	1	25	6/18/16 20:24	RJW	
Heptane	ND	5.00	12.5		ND	20	51	1	25	6/18/16 20:24	RJW	
Hexane	ND	5.00	12.5		ND	18	44	1	25	6/18/16 20:24	RJW	
Isopropylbenzene	ND	5.00	12.5		ND	25	61	1	25	6/18/16 20:24	RJW	
m+p-Xylenes	ND	10.0	25.0		ND	43	110	1	25	6/18/16 20:24	RJW	
Methyl methacrylate	ND	5.00	12.5		ND	20	51	1	25	6/18/16 20:24	RJW	
Methylene chloride	ND	12.5	25.0		ND	43	87	1	25	6/18/16 20:24	RJW	
Methyl-t-butyl ether (MTBE)	ND	5.00	12.5		ND	18	45	1	25	6/18/16 20:24	RJW	
o-Xylene	ND	5.00	12.5		ND	22	54	1	25	6/18/16 20:24	RJW	
Propylene	ND	5.00	12.5		ND	8.6	22	1	25	6/18/16 20:24	RJW	
Styrene	ND	5.00	12.5		ND	21	53	1	25	6/18/16 20:24	RJW	
TBA	ND	12.5	12.5		ND	38	38	1	25	6/18/16 20:24	RJW	
Tetrachloroethylene (PCE)	ND	5.00	12.5		ND	34	85	1	25	6/18/16 20:24	RJW	
Tetrahydrofuran	ND	5.00	12.5		ND	15	37	1	25	6/18/16 20:24	RJW	
Toluene	ND	5.00	12.5		ND	19	47	1	25	6/18/16 20:24	RJW	
trans-1,2-Dichloroethylene	ND	5.00	12.5		ND	20	50	1	25	6/18/16 20:24	RJW	
trans-1,3-Dichloropropene	ND	5.00	12.5		ND	23	57	1	25	6/18/16 20:24	RJW	
Trichloroethylene	ND	5.00	12.5		ND	27	67	1	25	6/18/16 20:24	RJW	
Trichlorofluoromethane	ND	12.5	12.5		ND	70	70	1	25	6/18/16 20:24	RJW	
Vinyl acetate	ND	5.00	12.5		ND	18	44	1	25	6/18/16 20:24	RJW	
Vinyl bromide	ND	5.00	12.5		ND	22	55	1	25	6/18/16 20:24	RJW	
Vinyl chloride	ND	5.00	12.5		ND	13	32	1	25	6/18/16 20:24	RJW	
Xylenes, Total	ND	15.0	37.5		ND	65	160	1	25	6/18/16 20:24	RJW	
Surrogate(s)	% Recovery			% Recovery Limits								
4-Bromofluorobenzene	91.6			80-120						6/18/16 20:24		



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Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Analytical Summary

Sample ID	Preparation Factors Initial / Final	Method	Batch ID	Sequence ID	Calibration ID
Volatile Organic Compounds by GCMS			Preparation Method:	No Prep VOC	
16F0320-01	16.0 mL / 400 mL	EPA TO-15	BZF0457	SZF0496	AF60076



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Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD	RPD	Limit	Qual
	Result	Limit			Units	%REC				

#### Batch BZF0457 - No Prep VOC

##### Blank (BZF0457-BLK1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,2,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloro-1,2,2-trifluoroethane	<0.20 ppbv	0.50	ppbv
1,1,2-Trichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,1-Dichloroethylene	<0.20 ppbv	0.50	ppbv
1,2,4-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,2-Dibromoethane (EDB)	<0.20 ppbv	0.50	ppbv
1,2-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,2-Dichloroethane	<0.20 ppbv	0.50	ppbv
1,2-Dichloropropane	<0.20 ppbv	0.50	ppbv
1,2-Dichlorotetrafluoroethane	<0.20 ppbv	0.50	ppbv
1,3,5-Trimethylbenzene	<0.20 ppbv	0.50	ppbv
1,3-Butadiene	<0.20 ppbv	0.50	ppbv
1,3-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dichlorobenzene	<0.20 ppbv	0.50	ppbv
1,4-Dioxane	<0.20 ppbv	0.50	ppbv
2-Butanone (MEK)	<0.20 ppbv	0.50	ppbv
4-Methyl-2-pentanone (MIBK)	<0.20 ppbv	0.50	ppbv
Acrolein	<0.20 ppbv	0.50	ppbv
Allyl chloride	<0.20 ppbv	0.50	ppbv
Benzene	<0.20 ppbv	0.50	ppbv
Benzyl Chloride	<0.20 ppbv	0.50	ppbv
Bromodichloromethane	<0.20 ppbv	0.50	ppbv
Bromoform	<0.20 ppbv	0.50	ppbv
Bromomethane	<0.20 ppbv	0.50	ppbv
Carbon Disulfide	<0.50 ppbv	0.50	ppbv
Carbon Tetrachloride	<0.20 ppbv	0.50	ppbv
Chlorobenzene	<0.20 ppbv	0.50	ppbv
Chloroethane	<0.20 ppbv	0.50	ppbv
Chloroform	<0.20 ppbv	0.50	ppbv
Chloromethane	<0.20 ppbv	0.50	ppbv
cis-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv



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Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source		%REC		RPD		Qual
	Result	Limit		Units	Result	%REC	Limits	RPD	Limit	
<b>Batch BZF0457 - No Prep VOC</b>										
<b>Blank (BZF0457-BLK1)</b>										
Prepared & Analyzed: 06/18/2016										
cis-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv							
Cyclohexane	<0.20 ppbv	0.50	ppbv							
Dichlorodifluoromethane	<0.50 ppbv	0.50	ppbv							
Ethyl acetate	<0.20 ppbv	0.50	ppbv							
Ethylbenzene	<0.20 ppbv	0.50	ppbv							
Heptane	<0.20 ppbv	0.50	ppbv							
Hexane	<0.20 ppbv	0.50	ppbv							
Isopropylbenzene	<0.20 ppbv	0.50	ppbv							
m+p-Xylenes	<0.40 ppbv	1.00	ppbv							
Methyl methacrylate	<0.20 ppbv	0.50	ppbv							
Methylene chloride	<0.50 ppbv	1.00	ppbv							
Methyl-t-butyl ether (MTBE)	<0.20 ppbv	0.50	ppbv							
o-Xylene	<0.20 ppbv	0.50	ppbv							
Propylene	<0.20 ppbv	0.50	ppbv							
Styrene	<0.20 ppbv	0.50	ppbv							
TBA	<0.50 ppbv	0.50	ppbv							
Tetrachloroethylene (PCE)	<0.20 ppbv	0.50	ppbv							
Tetrahydrofuran	<0.20 ppbv	0.50	ppbv							
Toluene	<0.20 ppbv	0.50	ppbv							
trans-1,2-Dichloroethylene	<0.20 ppbv	0.50	ppbv							
trans-1,3-Dichloropropene	<0.20 ppbv	0.50	ppbv							
Trichloroethylene	<0.20 ppbv	0.50	ppbv							
Trichlorofluoromethane	<0.50 ppbv	0.50	ppbv							
Vinyl acetate	<0.20 ppbv	0.50	ppbv							
Vinyl bromide	<0.20 ppbv	0.50	ppbv							
Vinyl chloride	<0.20 ppbv	0.50	ppbv							
Xylenes, Total	<0.60 ppbv	1.50	ppbv							
Surr: 4-Bromofluorobenzene	4.42		ppbv	5.00		88.4	80-120			



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0320

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### LCS (BZF0457-BS1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
1,1,2,2-Tetrachloroethane	5.96 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
1,1,2-Trichloro-1,2,2-trifluoroethane	4.84 ppbv	0.5	ppbv	5.00	ppbv	96.8	70-130		
1,1,2-Trichloroethane	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
1,1-Dichloroethane	5.10 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
1,1-Dichloroethylene	4.69 ppbv	0.5	ppbv	5.00	ppbv	93.8	70-130		
1,2,4-Trimethylbenzene	6.15 ppbv	0.5	ppbv	5.00	ppbv	123	70-130		
1,2-Dibromoethane (EDB)	5.63 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
1,2-Dichlorobenzene	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130		
1,2-Dichloroethane	5.30 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,2-Dichloropropane	5.32 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
1,2-Dichlorotetrafluoroethane	4.39 ppbv	0.5	ppbv	5.00	ppbv	87.8	70-130		
1,3,5-Trimethylbenzene	5.91 ppbv	0.5	ppbv	5.00	ppbv	118	70-130		
1,3-Butadiene	4.32 ppbv	0.5	ppbv	5.00	ppbv	86.4	70-130		
1,3-Dichlorobenzene	4.92 ppbv	0.5	ppbv	5.00	ppbv	98.4	70-130		
1,4-Dichlorobenzene	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130		
1,4-Dioxane	6.36 ppbv	0.5	ppbv	5.00	ppbv	127	70-130		
2-Butanone (MEK)	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
4-Methyl-2-pentanone (MIBK)	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130		
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Allyl chloride	4.81 ppbv	0.5	ppbv	5.00	ppbv	96.2	70-130		
Benzene	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Benzyl Chloride	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130		
Bromodichloromethane	5.08 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Bromoform	5.53 ppbv	0.5	ppbv	5.00	ppbv	111	70-130		
Bromomethane	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
Carbon Disulfide	4.72 ppbv	0.5	ppbv	5.00	ppbv	94.4	70-130		
Carbon Tetrachloride	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chlorobenzene	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chloroethane	5.31 ppbv	0.5	ppbv	5.00	ppbv	106	70-130		
Chloroform	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Chloromethane	4.90 ppbv	0.5	ppbv	5.00	ppbv	98.0	70-130		
cis-1,2-Dichloroethylene	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130		
cis-1,3-Dichloropropene	5.66 ppbv	0.5	ppbv	5.00	ppbv	113	70-130		
Cyclohexane	5.06 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Dichlorodifluoromethane	4.79 ppbv	0.5	ppbv	5.00	ppbv	95.8	70-130		



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Final Report

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7834 Forest Hill Ave. Suite 7  
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Date Received: June 10, 2016 12:35  
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Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### LCS (BZF0457-BS1)

Prepared & Analyzed: 06/18/2016

Ethyl acetate	3.86 ppbv	0.5	ppbv	5.00	ppbv	77.2	70-130		
Ethylbenzene	5.94 ppbv	0.5	ppbv	5.00	ppbv	119	70-130		
Heptane	5.22 ppbv	0.5	ppbv	5.00	ppbv	104	70-130		
Hexane	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130		
Isopropylbenzene	6.08 ppbv	0.50	ppbv		ppbv		70-130		
m+p-Xylenes	11.9 ppbv	1	ppbv	10.0	ppbv	119	70-130		
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		
Methylene chloride	4.69 ppbv	1.00	ppbv		ppbv		70-130		
Methyl-t-butyl ether (MTBE)	5.04 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
o-Xylene	6.03 ppbv	0.5	ppbv	5.00	ppbv	121	70-130		
Propylene	3.96 ppbv	0.5	ppbv	5.00	ppbv	79.2	70-130		
Styrene	6.08 ppbv	0.5	ppbv	5.00	ppbv	122	70-130		
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		
Tetrachloroethylene (PCE)	5.50 ppbv	0.5	ppbv	5.00	ppbv	110	70-130		
Tetrahydrofuran	6.14 ppbv	0.5	ppbv	5.00	ppbv	123	70-130		
Toluene	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130		
trans-1,2-Dichloroethylene	4.87 ppbv	0.5	ppbv	5.00	ppbv	97.4	70-130		
trans-1,3-Dichloropropene	5.37 ppbv	0.5	ppbv	5.00	ppbv	107	70-130		
Trichloroethylene	5.39 ppbv	0.5	ppbv	5.00	ppbv	108	70-130		
Trichlorofluoromethane	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130		
Vinyl acetate	4.86 ppbv	0.5	ppbv	5.00	ppbv	97.2	70-130		
Vinyl bromide	4.45 ppbv	0.5	ppbv	5.00	ppbv	89.0	70-130		
Vinyl chloride	4.71 ppbv	0.5	ppbv	5.00	ppbv	94.2	70-130		
Xylenes, Total	17.9 ppbv	1.50	ppbv		ppbv		70-130		
<i>Surr: 4-Bromofluorobenzene</i>	5.36		ppbv	5.00	ppbv	107	70-130		

##### LCS Dup (BZF0457-BSD1)

Prepared & Analyzed: 06/18/2016

1,1,1-Trichloroethane	5.71 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	1.41	25
1,1,1,2-Tetrachloroethane	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25
1,1,2,2-Tetrachloroethane	6.00 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	0.669	25
1,1,2-Trichloro-1,2,2-trifluoroethane	4.98 ppbv	0.5	ppbv	5.00	ppbv	99.6	70-130	2.85	25
1,1,2-Trichloroethane	5.65 ppbv	0.5	ppbv	5.00	ppbv	113	70-130	0.355	25
1,1-Dichloroethane	5.18 ppbv	0.5	ppbv	5.00	ppbv	104	70-130	1.56	25
1,1-Dichloroethylene	4.85 ppbv	0.5	ppbv	5.00	ppbv	97.0	70-130	3.35	25
1,2,4-Trimethylbenzene	6.11 ppbv	0.5	ppbv	5.00	ppbv	122	70-130	0.653	25
1,2-Dibromoethane (EDB)	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.07	25



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Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD		Qual
	Result	Limit			Units	%REC	Limits	RPD	

#### Batch BZF0457 - No Prep VOC

##### LCS Dup (BZF0457-BSD1)

Prepared & Analyzed: 06/18/2016

Analyte	Result	Limit	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Qual
1,2-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130	0.840	25	
1,2-Dichloroethane	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	3.16	25	
1,2-Dichloropropane	5.48 ppbv	0.5	ppbv	5.00	ppbv	110	70-130	2.96	25	
1,2-Dichlorotetrafluoroethane	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130	9.54	25	
1,3,5-Trimethylbenzene	5.95 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	0.675	25	
1,3-Butadiene	4.48 ppbv	0.5	ppbv	5.00	ppbv	89.6	70-130	3.64	25	
1,3-Dichlorobenzene	4.83 ppbv	0.5	ppbv	5.00	ppbv	96.6	70-130	1.85	25	
1,4-Dichlorobenzene	4.74 ppbv	0.5	ppbv	5.00	ppbv	94.8	70-130	0.840	25	
1,4-Dioxane	6.60 ppbv	0.5	ppbv	5.00	ppbv	132	70-130	3.70	25	L
2-Butanone (MEK)	5.14 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	1.57	25	
4-Methyl-2-pentanone (MIBK)	5.44 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	5.09	25	
Acrolein	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25	
Allyl chloride	4.57 ppbv	0.5	ppbv	5.00	ppbv	91.4	70-130	5.12	25	
Benzene	5.69 ppbv	0.5	ppbv	5.00	ppbv	114	70-130	3.40	25	
Benzyl Chloride	5.81 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	0.00	25	
Bromodichloromethane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	2.91	25	
Bromoform	5.43 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	1.82	25	
Bromomethane	4.78 ppbv	0.5	ppbv	5.00	ppbv	95.6	70-130	1.26	25	
Carbon Disulfide	4.91 ppbv	0.5	ppbv	5.00	ppbv	98.2	70-130	3.95	25	
Carbon Tetrachloride	5.47 ppbv	0.5	ppbv	5.00	ppbv	109	70-130	2.97	25	
Chlorobenzene	5.26 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.946	25	
Chloroethane	5.07 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	4.62	25	
Chloroform	5.36 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	0.00	25	
Chloromethane	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	12.8	25	
cis-1,2-Dichloroethylene	5.12 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	2.77	25	
cis-1,3-Dichloropropene	5.74 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	1.40	25	
Cyclohexane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	4.07	25	
Dichlorodifluoromethane	5.33 ppbv	0.5	ppbv	5.00	ppbv	107	70-130	10.7	25	
Ethyl acetate	3.87 ppbv	0.5	ppbv	5.00	ppbv	77.4	70-130	0.259	25	
Ethylbenzene	5.94 ppbv	0.5	ppbv	5.00	ppbv	119	70-130	0.00	25	
Heptane	5.27 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	0.953	25	
Hexane	5.23 ppbv	0.5	ppbv	5.00	ppbv	105	70-130	2.71	25	
Isopropylbenzene	6.14 ppbv	0.50	ppbv		ppbv		70-130	0.982	25	
m+p-Xylenes	11.7 ppbv	1	ppbv	10.0	ppbv	117	70-130	1.69	25	
Methyl methacrylate	<0.20 ppbv	0.50	ppbv		ppbv		70-130		25	
Methylene chloride	4.89 ppbv	1.00	ppbv		ppbv		70-130	4.18	25	
Methyl-t-butyl ether (MTBE)	5.09 ppbv	0.5	ppbv	5.00	ppbv	102	70-130	0.987	25	



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0320

Client Name: France Environmental, Inc.  
7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Volatile Organic Compounds by GCMS - Quality Control

#### Air Water and Soil Laboratories, Inc.

Analyte	Reporting		Spike Level	Source Result	%REC		RPD	RPD Limit	Qual
	Result	Limit			Units	%REC			

#### Batch BZF0457 - No Prep VOC

##### LCS Dup (BZF0457-BSD1)

Prepared & Analyzed: 06/18/2016

o-Xylene	6.14 ppbv	0.5	ppbv	5.00	ppbv	123	70-130	1.81	25
Propylene	3.84 ppbv	0.5	ppbv	5.00	ppbv	76.8	70-130	3.08	25
Styrene	6.01 ppbv	0.5	ppbv	5.00	ppbv	120	70-130	1.16	25
TBA	<0.50 ppbv	0.50	ppbv		ppbv		70-130		25
Tetrachloroethylene (PCE)	5.57 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	1.26	25
Tetrahydrofuran	6.41 ppbv	0.5	ppbv	5.00	ppbv	128	70-130	4.30	25
Toluene	5.80 ppbv	0.5	ppbv	5.00	ppbv	116	70-130	1.04	25
trans-1,2-Dichloroethylene	5.05 ppbv	0.5	ppbv	5.00	ppbv	101	70-130	3.63	25
trans-1,3-Dichloropropene	5.56 ppbv	0.5	ppbv	5.00	ppbv	111	70-130	3.48	25
Trichloroethylene	5.75 ppbv	0.5	ppbv	5.00	ppbv	115	70-130	6.46	25
Trichlorofluoromethane	5.17 ppbv	0.5	ppbv	5.00	ppbv	103	70-130	2.35	25
Vinyl acetate	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	0.411	25
Vinyl bromide	4.82 ppbv	0.5	ppbv	5.00	ppbv	96.4	70-130	7.98	25
Vinyl chloride	4.88 ppbv	0.5	ppbv	5.00	ppbv	97.6	70-130	3.55	25
Xylenes, Total	17.8 ppbv	1.50	ppbv		ppbv		70-130	0.503	25
Surr: 4-Bromofluorobenzene	5.19		ppbv	5.00	ppbv	104	70-130		





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Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

### Certified Analytes included in this Report

Analyte	Certifications	Analyte	Certifications
<i>EPA TO-15 in Air</i>		Isopropylbenzene	VELAP
1,1,1-Trichloroethane	VELAP	m+p-Xylenes	VELAP
1,1,1,2-Tetrachloroethane	VELAP	Methyl methacrylate	VELAP
1,1,2,2-Tetrachloroethane	VELAP	Methylene chloride	VELAP
1,1,2-Trichloro-1,2,2-trifluoroethane	VELAP	Methyl-t-butyl ether (MTBE)	VELAP
1,1,2-Trichloroethane	VELAP	o-Xylene	VELAP
1,1-Dichloroethane	VELAP	Propylene	VELAP
1,1-Dichloroethylene	VELAP	Styrene	VELAP
1,2,4-Trimethylbenzene	VELAP	TBA	VELAP
1,2-Dibromoethane (EDB)	VELAP	Tetrachloroethylene (PCE)	VELAP
1,2-Dichlorobenzene	VELAP	Tetrahydrofuran	VELAP
1,2-Dichloroethane	VELAP	Toluene	VELAP
1,2-Dichloropropane	VELAP	trans-1,2-Dichloroethylene	VELAP
1,2-Dichlorotetrafluoroethane	VELAP	trans-1,3-Dichloropropene	VELAP
1,3,5-Trimethylbenzene	VELAP	Trichloroethylene	VELAP
1,3-Butadiene	VELAP	Trichlorofluoromethane	VELAP
1,3-Dichlorobenzene	VELAP	Vinyl acetate	VELAP
1,4-Dichlorobenzene	VELAP	Vinyl bromide	VELAP
1,4-Dioxane	VELAP	Vinyl chloride	VELAP
2-Butanone (MEK)	VELAP	Xylenes, Total	VELAP
4-Methyl-2-pentanone (MIBK)	VELAP		
Acrolein	VELAP		
Allyl chloride	VELAP		
Benzene	VELAP		
Benzyl Chloride	VELAP		
Bromodichloromethane	VELAP		
Bromoform	VELAP		
Bromomethane	VELAP		
Carbon Disulfide	VELAP		
Carbon Tetrachloride	VELAP		
Chlorobenzene	VELAP		
Chloroethane	VELAP		
Chloroform	VELAP		
Chloromethane	VELAP		
cis-1,2-Dichloroethylene	VELAP		
cis-1,3-Dichloropropene	VELAP		
Cyclohexane	VELAP		
Dichlorodifluoromethane	VELAP		
Ethyl acetate	VELAP		
Ethylbenzene	VELAP		
Heptane	VELAP		
Hexane	VELAP		



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## Certificate of Analysis

Final Report

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7834 Forest Hill Ave. Suite 7  
Richmond, VA 23225

Date Received: June 10, 2016 12:35  
Date Issued: June 20, 2016 16:08

Submitted To: Joe France

Project Number: 34323.022

Client Site I.D.: Fulton Gas Works

Purchase Order:

Code	Description	Cert Number	Expires
MdDOE	Maryland DE Drinking Water	341	12/31/2016
NC	North Carolina DENR	495	12/31/2016
PADEP	NELAC-Pennsylvania	001	10/31/2016
VELAP Certificate #4337	NELAC-Virginia Certificate #8271	460021	06/15/2017
WVDEP	West Virginia DEP	350	11/30/2016

### Qualifiers and Definitions

L LCS recovery is outside of established acceptance limits

RPD Relative Percent Difference

Qual Qualifiers

-RE Denotes sample was re-analyzed

PF Preparation Factor

MDL Method Detection Limit

LOQ Limit of Quantitation

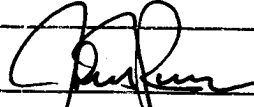
ppbv parts per billion by volume

TIC Tentatively Identified Compounds are compounds that are identified by comparing the analyte mass spectral pattern with the NIST spectral library. A TIC spectral match is reported when the pattern is at least 75% consistent with the published pattern. Compound concentrations are estimated and are calculated using an internal standard response factor of 1.

**AIR ANALYSIS  
CHAIN OF CUSTODY**

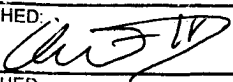
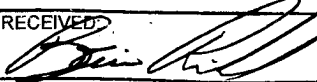
of

COMPANY NAME: <u>Timmers Group</u>	INVOICE TO: <u>^</u>	PROJECT NAME/Quote #:
CONTACT: <u>John Russell</u>	INVOICE CONTACT: <u>^^</u>	SITE NAME: <u>Fulton Gas Works</u>
ADDRESS: <u>1401 Boulders Parkway - Suite 300</u>	INVOICE ADDRESS: <u>Richmond, VA</u>	PROJECT NUMBER: <u>3423.022</u>
PHONE #: <u>200-6427</u>	INVOICE PHONE #:	P.O. #:
FAX #:	EMAIL: <u>john.russell@timbers.com</u>	

SAMPLER NAME (PRINT): <u>John T Russell</u>	SAMPLER SIGNATURE: 	Turn Around Time: <u>5</u> Day(s)
---	--	-----------------------------------

Matrix Codes: AA=Indoor/Ambient Air SG=Soil Gas LV=Landfill/Vent Gas OT=Other

CLIENT SAMPLE I.D.	Regulator Info		Canister Information				Sampling Start Information				Sampling Stop Information			ANALYSIS			
	Flow Controller ID	Cal Flow (mL/min)	Canister ID	Size (L)	Cleaning Batch ID	LAB Outgoing Canister Vacuum (in Hg)	LAB Receiving Canister Vacuum (in Hg)	Barometric Pres. (in Hg): <u>36% relative humidity</u>	Start Date	Start Time (24hr clock)	Initial Canister Vacuum (in Hg)	Starting Sample Temp °F	Stop Date		Stop Time (24hr clock)	Final Canister Vacuum (in Hg)	Ending Sample Temp °F
1) <u>VP-9</u>	<u>N/A</u>	<u>N/A Grab</u>	<u>#16170</u>	<u>1</u>	<u>160525-03</u>	<u>30</u>	<u>1</u>	<u>36% relative humidity</u>	<u>6/10/16</u>	<u>10:12</u>	<u>72°</u>	<u>72°</u>	<u>6/10/16</u>	<u>10:25</u>	<u>72°</u>		<u>T015</u>
2)																	
3)																	
4)																	

RELINQUISHED: 	DATE / TIME: <u>6-10-16 12:35</u>	RECEIVED: 	DATE / TIME: <u>6/10/16 12:35</u>	QC Data Package	LAB USE ONLY
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level I <input type="checkbox"/>	<b>FEI</b> <b>16F0320</b> <b>Fulton Gas Works-2016</b> <b>Recd: 06/10/2016 Due: 06/17/2016</b> <small>v130325002</small>
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level II <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level III <input type="checkbox"/>	
RELINQUISHED:	DATE / TIME:	RECEIVED:	DATE / TIME:	Level IV <input type="checkbox"/>	

Page 14 of 16



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**Sample Conditions Checklist**

Opened by: (Initials) BL Lab ID No.: 16F0320  
 Date Cooler Opened: 06/10/16

- |     |  | YES                                 | NO                                  | N/A                                 |
|-----|--|-------------------------------------|-------------------------------------|-------------------------------------|
| 1.  | How were samples received?<br>Fed Ex <input type="checkbox"/><br>UPS <input type="checkbox"/><br>Courier <input type="checkbox"/><br>Walk In <input checked="" type="checkbox"/> |                                     |                                     |                                     |
| 2.  | Were custody seals used?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| 3.  | If yes, are custody seals unbroken and intact at the date and time of arrival?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4.  | Are the custody papers filled out completely and correctly?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 5.  | Do all bottle labels agree with custody papers?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 7.  | Is the temperature blank or representative sample within acceptable limits?<br>(above freezing to 6°C)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 8.  | If NO, are the samples just taken and received on ice?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 9.  | Are all samples within holding time for requested laboratory tests?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 10. | Is a sufficient amount of sample provided to perform the tests indicated?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 11. | Are all samples in proper containers for the analyses requested?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 12. | Are all samples appropriately preserved for the analyses requested?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/>            |
| 13. | Are all volatile organic containers free of headspace?   | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 14. | Are all TOX containers free of headspace?  | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 15. | Is Trip blank provided with each VOC sample set? Circle applicable method:<br>(Document if trip blank is not received with the sample set)                                       | <input type="checkbox"/>            | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

EPA 8011    EPA 504    EPA 8260    EPA 624  
 RSK-175    EPA 8015 (GRO)    EPA 8021  
 EPA 524    \*GRO Wisconsin DNR (water and/or methanol trip blank must be provided)

\* See preservation log for Wisconsin soil DRO.

**COMMENTS**

*Per Joe France and John Russell work order logged with client: France Environmental. BL 06/16*

**FOR LAB USE ONLY:**

CrVI preserved date/time: \_\_\_\_\_

Buffer Sol'n ID: \_\_\_\_\_

Analyst initials: \_\_\_\_\_

1N NaOH ID: \_\_\_\_\_ or

5N NaOH ID: \_\_\_\_\_

THIS DOCUMENT IS UNCONTROLLED WHEN PRINTED  
 F1302 Sample Condition 6\_0.xls



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## Certificate of Analysis

Final Report

Laboratory Order ID 16F0320

Client Name:	France Environmental, Inc. 7834 Forest Hill Ave. Suite 7 Richmond, VA 23225	Date Received:	June 10, 2016 12:35
		Date Issued:	June 20, 2016 16:08
Submitted To:	Joe France	Project Number:	34323.022
Client Site I.D.:	Fulton Gas Works	Purchase Order:	

### Sample Conditions Checklist

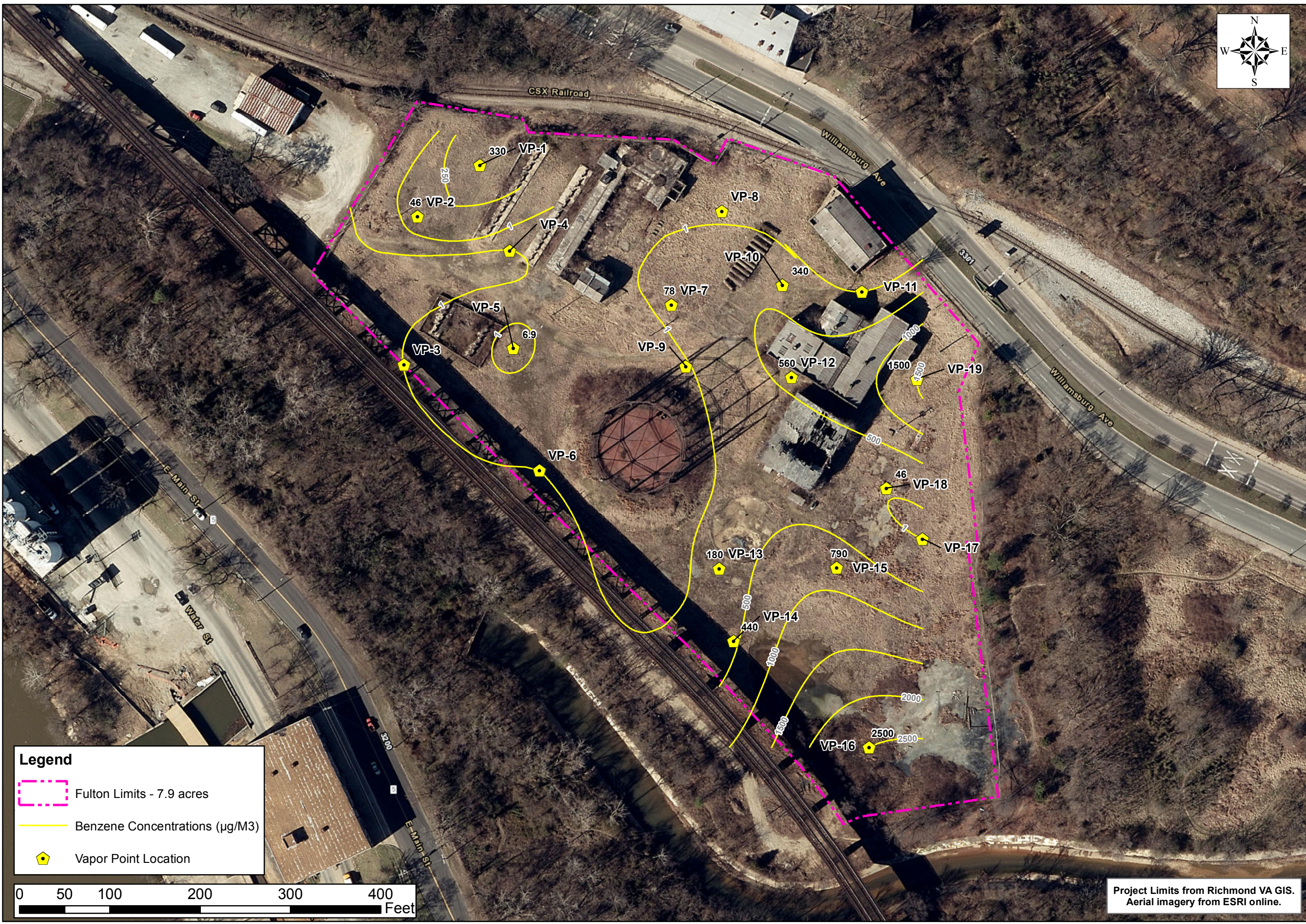
Samples Received at:	24.10°C
How were samples received?	Walk In
Were Custody Seals used? If so, were they received intact?	No
Are the custody papers filled out completely and correctly?	Yes
Do all bottle labels agree with custody papers?	Yes
Is the temperature blank or representative sample within acceptable limits? (above freezing to 6°C) or received on ice and recently taken?	No
Are all samples within holding time for requested laboratory tests?	Yes
Is a sufficient amount of sample provided to perform the tests included?	Yes
Are all samples in appropriate containers for the analyses requested?	Yes
Were volatile organic containers received?	No
Are all volatile organic and TOX containers free of headspace?	NA
Is a trip blank provided for each VOC sample set? VOC sample sets include EPA8011, EPA504, EPA8260, EPA624, EPA8015 GRO, EPA8021, EPA524, and RSK-175.	NA
Are all samples received appropriately preserved. Note that metals containers do not require field preservation but lab preservation may delay analysis.	Yes

## ***APPENDIX 4***

---

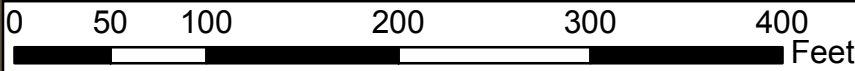
### **Isoconcentration Maps**

Path: Y:\804136156-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Benzene.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Benzene Concentrations ( $\mu\text{g}/\text{M}^3$ )
- Vapor Point Location



Project Limits from Richmond VA GIS. Aerial imagery from ESRI online.

**TIMMONS GROUP**

**FULTON GAS WORKS**  
CITY OF RICHMOND, VIRGINIA

**BENZENE CONCENTRATION MAP**

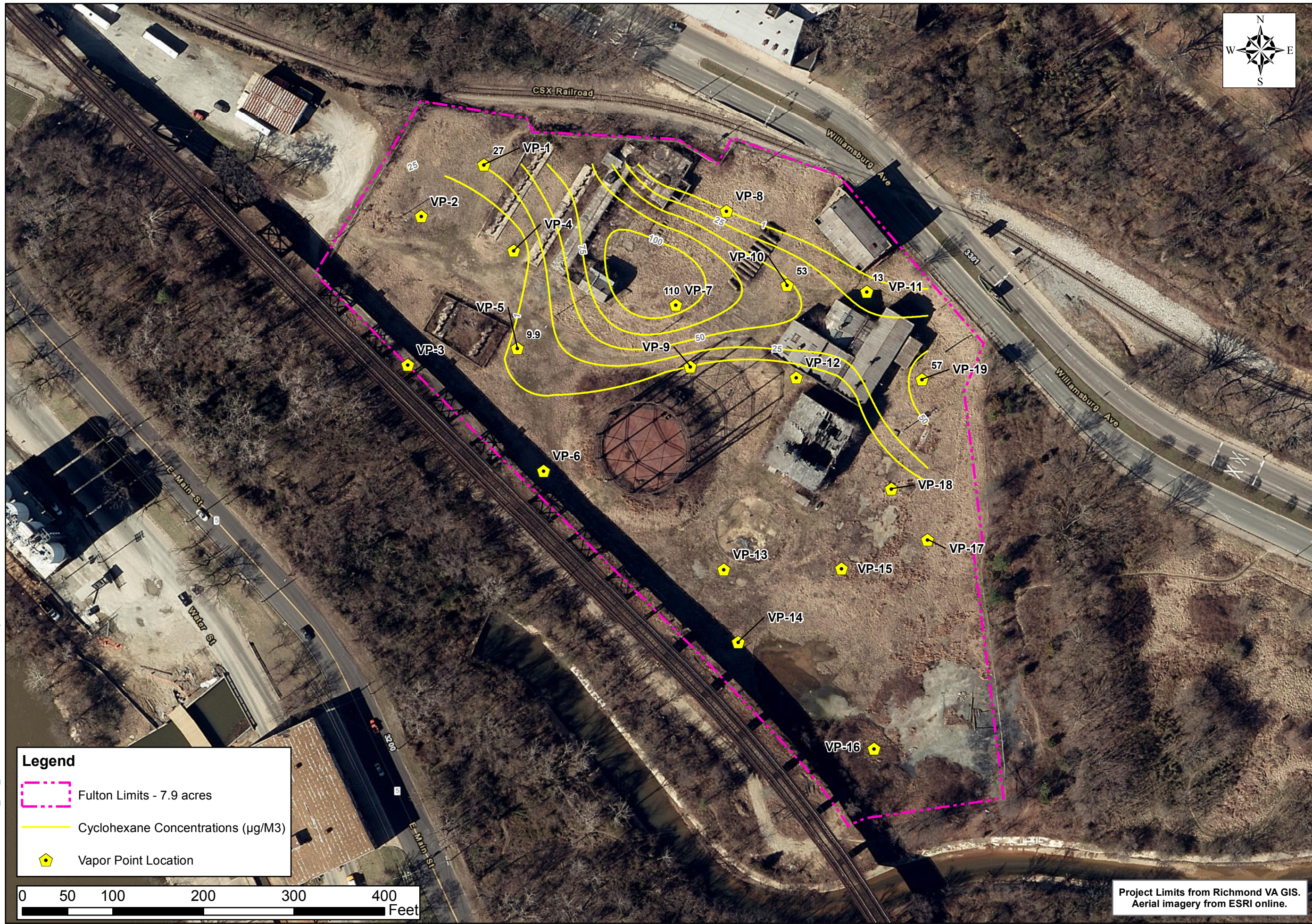
THIS DRAWING PREPARED AT THE CORPORATE OFFICE  
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225  
TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

YOUR VISION ACHIEVED THROUGH OURS

Site Development	Residential	Infrastructure	Technology	Environmental
DATE	DATE	DATE	DATE	DATE
	07/13/2016			
	DRAWN BY			
	B. NORRIS			
	DESIGNED BY			
	B. NORRIS			
	CHECKED BY			
	J. RUSSELL			
	SCALE			
	1" = 100'			
JOB NUMBER		36156.016		
SHEET NO.		1 OF 1		

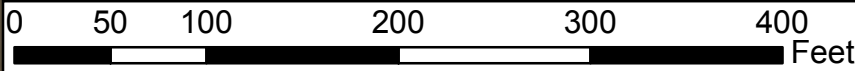
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Path: Y:\804136156-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Cyclohexane.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Cyclohexane Concentrations ( $\mu\text{g}/\text{M}^3$ )
- ⬠ Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

TIMMONS GROUP

**FULTON GAS WORKS**  
CITY OF RICHMOND, VIRGINIA

**CYCLOHEXANE CONCENTRATION MAP**

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CORPORATE OFFICE  
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225  
TEL 804.200.6500 FAX 804.560.7648 www.timmons.com

Site Development | Residential | Infrastructure | Technology | Environmental

REVISION DESCRIPTION	
DATE	REVISION DESCRIPTION
08/12/2016	DATE
B. NORRIS	DRAWN BY
B. NORRIS	DESIGNED BY
J. RUSSELL	CHECKED BY
1" = 100'	SCALE

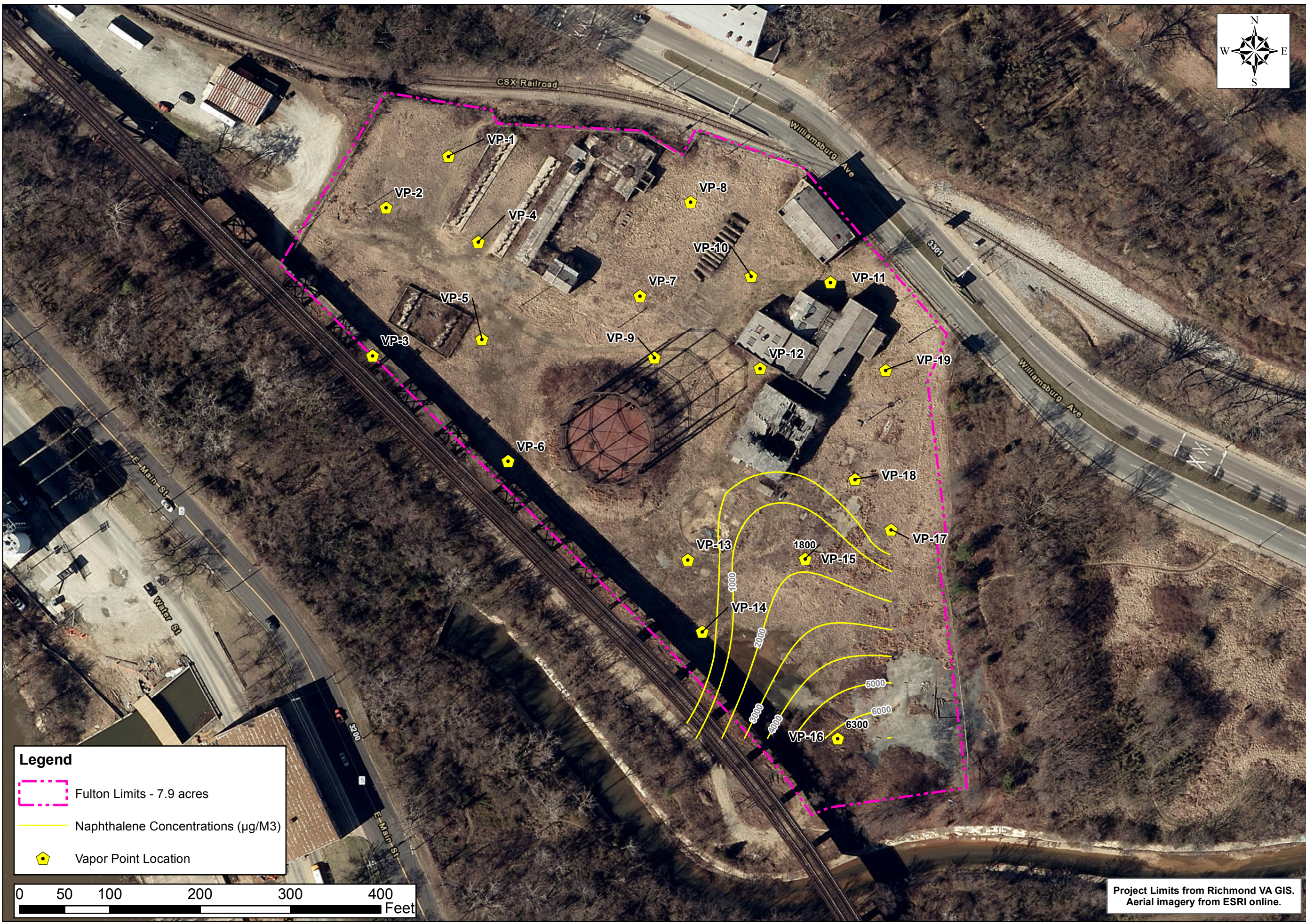
JOB NUMBER  
36156.016

SHEET NO.  
1 OF 1




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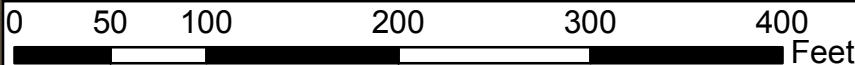


Path: Y:\804\36156.006-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Naphthalene.mxd



**Legend**

-  Fulton Limits - 7.9 acres
-  Naphthalene Concentrations ( $\mu\text{g}/\text{M}^3$ )
-  Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

**TIMMONS GROUP**

**FULTON GAS WORKS**  
CITY OF RICHMOND, VIRGINIA

**NAPHTHALENE CONCENTRATION MAP**

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Site Development	Residential	Infrastructure	Technology	Environmental
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REVISION DESCRIPTION

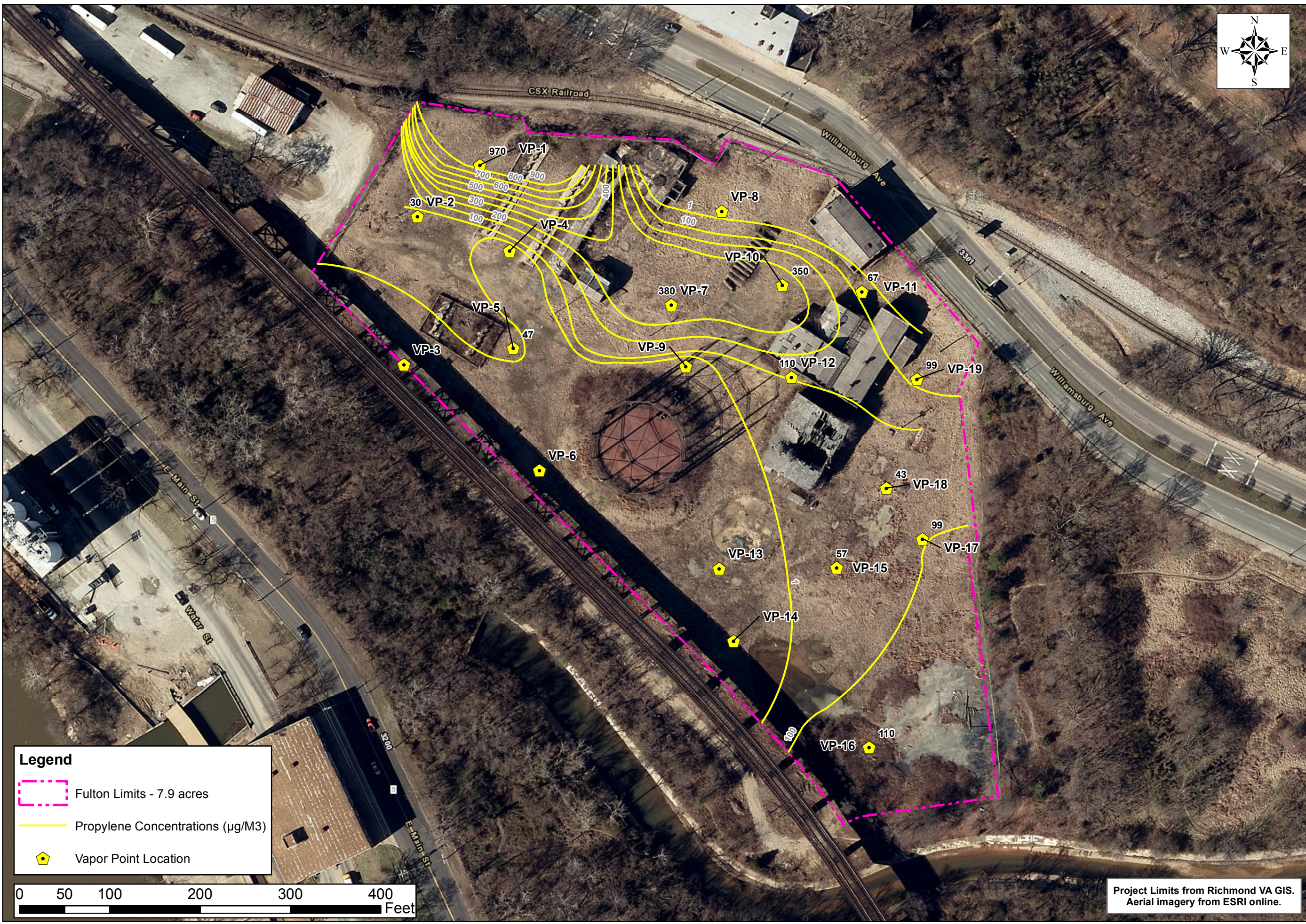
DATE	07/13/2016
DRAWN BY	B. NORRIS
DESIGNED BY	B. NORRIS
CHECKED BY	J. RUSSELL
SCALE	1" = 100'

JOB NUMBER  
36156.016

SHEET NO.  
1 OF 1

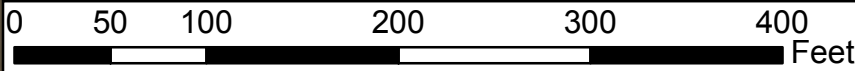
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Path: Y:\804136156-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Propylene.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Propylene Concentrations ( $\mu\text{g}/\text{M}^3$ )
- Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

**TIMMONS GROUP**

FULTON GAS WORKS  
CITY OF RICHMOND, VIRGINIA

PROPYLENE CONCENTRATION MAP

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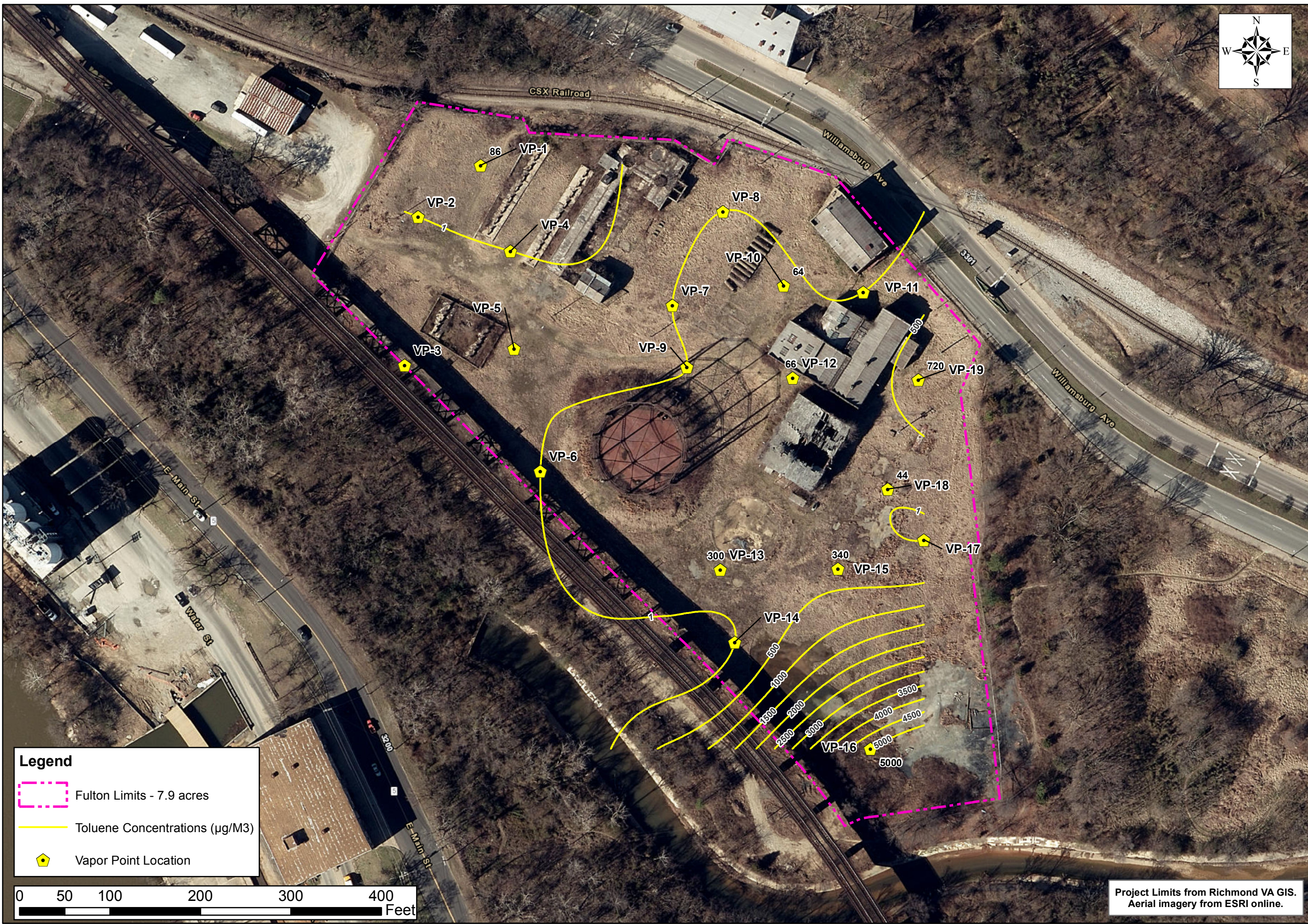
DATE	REVISION DESCRIPTION
08/12/2016	

DATE: 08/12/2016  
DRAWN BY: B. NORRIS  
DESIGNED BY: B. NORRIS  
CHECKED BY: J. RUSSELL  
SCALE: 1" = 100'

JOB NUMBER: 36156.016  
SHEET NO.: 1 OF 1

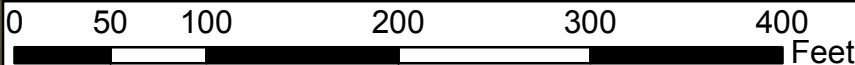
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Path: Y:\804136156-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Toluene.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Toluene Concentrations (µg/M3)
- Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

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TOLUENE CONCENTRATION MAP

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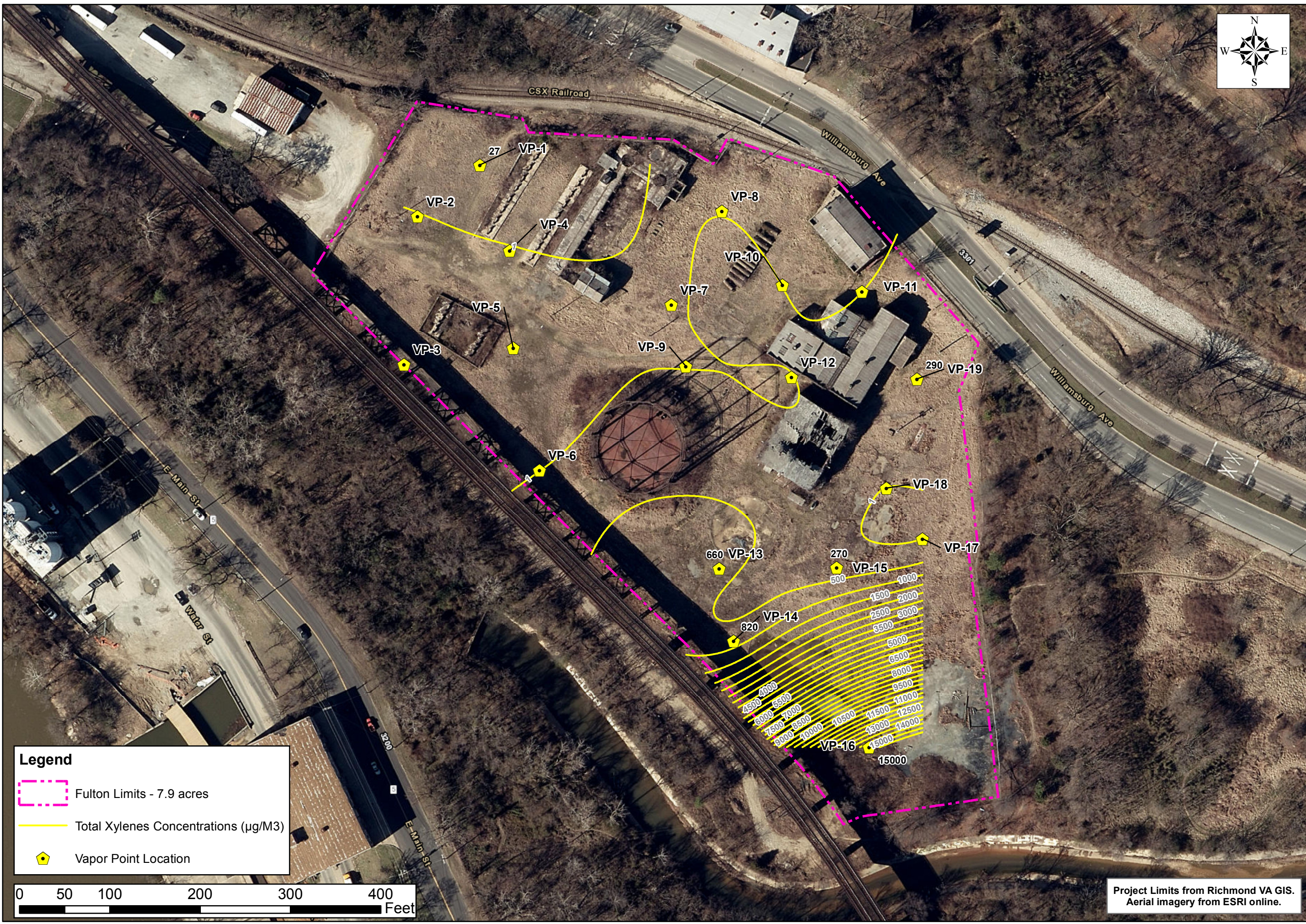
Site Development | Residential | Infrastructure | Technology | Environmental

DATE: 08/12/2016  
DRAWN BY: B. NORRIS  
DESIGNED BY: B. NORRIS  
CHECKED BY: J. RUSSELL  
SCALE: 1" = 100'

JOB NUMBER: 36156.016  
SHEET NO. 1 OF 1

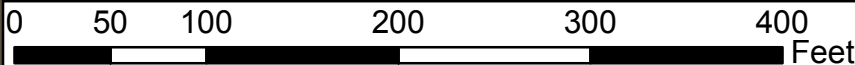
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Path: Y:\804136156-Fulton\_Gas\_Works\GIS\Common Shared Exhibits\Xylenes.mxd



**Legend**

- Fulton Limits - 7.9 acres
- Total Xylenes Concentrations ( $\mu\text{g}/\text{M}^3$ )
- ♦ Vapor Point Location



Project Limits from Richmond VA GIS.  
Aerial imagery from ESRI online.

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TOTAL XYLENES CONCENTRATION MAP

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DATE	
DATE	08/12/2016
DRAWN BY	B. NORRIS
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SCALE	1" = 100'

JOB NUMBER  
36156.016

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1 OF 1

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