

FINAL REPORT

# Tim Bayly Property Off-Site Site Characterization Report

Site No. C442043A

**New York State Department of Environmental Conservation  
Division of Environmental Remediation**

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Prepared for:

**New York State Department of  
Environmental Conservation  
Division of Environmental Remediation**

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A 1<sup>st</sup> Quarter 2019 Groundwater Monitoring Report

## LIST OF ACRONYMS AND ABBREVIATIONS

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Aztech	Aztech Environmental Technologies
BCP	Brownfield Clean-up Program
CT	Carbon Tetrachloride
Cascade	Cascade Technical Services, LLC.
CVOC	Chlorinated Volatile Organic Compound
cDCE	cis-1,2-Dichloroethene
CSM	Conceptual Site Model
COCs	Constituents of Concern
DUSR	Data Usability Summary Report
DNAPL	Dense Non-Aqueous Phase Liquid
1,1-DCE	1,1-Dichloroethene
DS	Direct-Sensing
DSNY	Dig Safely New York
DPT	Direct-Push Technology
DO	Dissolved Oxygen
DOT	Department of Transportation
EC	Electrical Conductivity
ECD	Electron Capture Detector
eV	Electron Volt
EDD	Electronic Data Deliverable
ECL	Environmental Conservation Law
ESA	Environmental Site Assessment
ft bg	Feet Below Grade
ft/ft	Feet Per Feet
ft/day	Feet Per Day
FAP	Field Activities Plan
FID	Flame Ionization Detector
GPR	Ground Penetrating Radar
XSD	Halogen-Specific Detector
HASP	Health and Safety Plan

HPT	Hydraulic Profiling Tool
IRM	Interim Remedial Measure
IDW	Investigation-Derived Waste
LL-MIP	Low-Level Membrane Interface Probe
MHz	Megahertz
MiHPT	Membrane Interface Probe Hydraulic Profiling Tool
µg/L	Micrograms Per Liter
µg/m <sup>3</sup>	Micrograms Per Meter Cubed
µV	Microvolts
mg/kg	Milligrams Per Kilogram
mg/l	Milligrams Per Liter
ml/min	Milliliters Per Minute
mS/cm	Millisiemens Per Centimeter
NTU	Nephelometric Turbidity Units
NYLD	New York Leak Detection, Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
NAD 83	North American Datum of 1983
NAVD 88	North American Vertical Datum of 1988
Redox	Oxidation-Reduction Potential
ppb	Parts Per Billion
ppm	Parts Per Million
ppt	Parts Per Trillion
PFAS	Per- and Polyfluoroalkyl Substances
PFOS	Perfluoro-Octanesulfonate
PFOA	Perfluorooctanoic Acid
PPE	Personal Protective Equipment
PID	Photoionization Detector
PCBs	Polychlorinated Biphenyls
PAHs	Polycyclic Aromatic Hydrocarbons
PVC	Polyvinyl Chloride
QAPP	Quality Assurance Project Plan



QA/QC	Quality Assurance/Quality Control
QHHEA	Qualitative Human Health Exposure Assessment
RAOs	Remedial Action Objectives
RI	Remedial Investigation
SOW	Scope of Work
SVOCs	Semi-Volatile Organic Compounds
SC	Site Characterization
SCOs	Soil Cleanup Objectives
SCR	Site Characterization Report
SGVs	Standards and Guidance Values
SVI	Soil Vapor Intrusion
SCGs	Standards, Criteria, and Guidance
SSDS	Sub-Slab Depressurization System
TAL	Target Analyte List
TCL	Target Compound List
TOGs	Technical and Operational Guidance Series
PCE	Tetrachloroethene
Thew	Thew Associates PE-LS, PLLC.
TCLP	Toxicity Characteristic Leaching Procedure
1,1,1-TCA	1,1,1-Trichloroethane
TCE	Trichloroethene
USEPA	United States Environmental Protection Agency
Veolia	Veolia ES Technical Solutions, LLC.
VC	Vinyl Chloride
VOCs	Volatile Organic Compounds
WA	Work Assignment

## 1. INTRODUCTION

### 1.1. PROJECT BACKGROUND

This Site Characterization Report (SCR) for the Tim Bayly Property – Off-Site was prepared by O’Brien & Gere Engineers, Inc., Part of Ramboll, (OBG) under contract with Parsons Engineering of New York. The off-site site characterization (SC) was conducted between October 2018 and April 2019 for the New York State Department of Environmental Conservation (NYSDEC) under Engineering Services Standby Contract Work Assignment (WA) #D007623-35. The off-site study area surrounds the Tim Bayly Property (Brownfield Cleanup Program [BCP] Site) located at 800 Broadway in the City of Rensselaer, County of Rensselaer, New York. The BCP Site is bound by Broadway to the west and Partition Street to the south. Mixed-use zoned properties, including residences, bound the property to the east and north, respectively. The adjoining vacant structure to the north is being redeveloped into an apartment building. A railyard is located across Broadway and Partition Street from the BCP Site to the west and south, respectively, and a convenience/retail petroleum store is located across Partition Street to the southeast. The area of focus for the off-site SC included the location of site investigation activities surrounding, but not including, the BCP Site. The BCP Site is being addressed separately by a Volunteer through the BCP (Site No. C442043). A site location map is included as **Figure 1-1**.

#### 1.1.1. Overview of Previous Investigations

##### Historic Use

A Phase I Environmental Site Assessment (ESA) was conducted for two parcels of land (one adjoining and the other proximal to the BCP Site). The Phase I ESA concluded that a former dry-cleaning business operated at the BCP Site from at least 1958 to 1978 (ARCADIS, 2012). The property remained vacant until 2017.

##### Previous Investigations

A Phase I ESA and Phase II investigation were conducted for two parcels of vacant land (one adjoining the BCP Site to the east and the other located north of the property) (ARCADIS, 2012, ARCADIS, 2013). Although, the BCP Site was not the subject of the ESAs, it was designated and assessed as a recognized environmental condition. The Phase II investigation included collection of both surface and sub-surface soil samples, installation and sampling of five monitoring wells (MW-01 through MW-05), and collection of soil vapor, sub-slab soil vapor, and indoor and ambient air samples for analysis of volatile organic compounds (VOCs), among other analytes. Per the Phase II ESA, tetrachloroethene (PCE), a chlorinated VOC typically used in the dry-cleaning process, was detected in sub-slab soil vapor and indoor air samples collected at the BCP Site at concentrations requiring mitigation under the New York State Department of Health (NYSDOH) guidelines. Additionally, sub-slab soil vapor and indoor air samples collected at the adjacent building located at 810 Broadway contained PCE at concentrations that reportedly require monitoring under NYSDOH guidelines (ARCADIS, 2013). Additionally, PCE and its degradation products [trichloroethene (TCE), cis-1,2-dichloroethene (cDCE), and vinyl chloride (VC)] were detected in the groundwater sample collected from monitoring well MW-05, located in the City of Rensselaer right-of-way adjacent to the southeast exterior corner of the BCP Site, at concentrations exceeding the NYSDEC Class GA Groundwater Standards.

Subsequent to the completion of the Phase I and Phase II ESAs, a Remedial Investigation (RI) was completed at the BCP Site as documented in the RI report dated December 22, 2016 (Hanson Van Vleet, 2016). Among other activities, the RI included the performance of a soil gas survey beneath the building, sub-slab vapor and indoor air sampling, collection of surface and sub-surface soil samples, installation of six additional monitoring wells, and groundwater sample collection from these new wells and the five existing wells. PCE was detected at concentrations of up to 9,800 parts per billion (ppb) during the soil gas survey, 6.3 milligrams per kilogram (mg/kg) in soil, and 200 micrograms per liter (µg/L) in groundwater. Other constituents of concern (COCs) identified by the RI include chromium, lead, mercury and 4-4-DDT in surface soils, mercury and manganese in subsurface soils, and TCE, cDCE, and VC in groundwater (Hanson Van Vleet, 2016).

According to the BCP Site RI report, chlorinated VOCs were apparently released at the BCP Site as a result of up to three breaches in a waste line between the former dry-cleaning equipment and the sanitary sewer beneath Partition Street, and possible spillage within the basement of the structure. The three breaches in the waste line appear to be a cracked pipe adjacent to a concrete equipment pad, a separation at the trap joint beneath the basement floor, and a breach below the Partition Street sidewalk in the Rensselaer City right-of-way where a cast iron waste line intersects with a clay tile pipe prior to entering the sanitary sewer line (Hanson Van Vleet, 2016). The soil vapor and groundwater sampling results in the basement indicate possible spillage at the structure. The source area associated with the possible spillage is unknown but appears to be located in the central portion of the basement coinciding with elevated levels of chlorinated VOCs in soil vapor and groundwater (Hanson Van Vleet, 2016).

Remedial actions at the BCP Site have included the installation of a site cover and sub-slab depressurization system.

### Site Characterization Activities

A Schedule 1 Scope of Work (SOW) dated June 7, 2018 (Parsons and OBG, 2018) was prepared in response to WA #D007623-35. The sampling and analysis activities were conducted in accordance with the SOW, site-specific requirements, and the previously approved Field Activities Plan (FAP) (Parsons and OBG, 2011a), Quality Assurance Project Plan (QAPP), and the Health and Safety Plan (HASP) (Parsons and OBG, 2011b, 2011c).

The BCP Site is shown on **Figure 1-2**. The components of the off-site SC were completed in two steps. The first step of the off-site SC consisted of the following:

- Coordination with the City of Rensselaer to obtain any available information pertaining to locations and depths of subsurface utilities and structures in the vicinity of the off-site study area;
- Coordination with the City of Rensselaer Department of Public Works to obtain a permit for public right-of-way occupation and performance of test borings;
- Subcontracting with a private utility locating company to identify structures, utilities, and provide utility clearance for drilling locations, and to also locate existing monitoring well MW-2 which was reportedly buried under gravel;
- Collection of three surface soil samples (SS-01, SS-02, SS-03) for laboratory analysis of target compound list (TCL) VOCs, TCL semi-volatile organic compounds (SVOCs), TCL pesticides, target analyte list (TAL) metals and polychlorinated biphenyls (PCBs);
- Completion of a direct-sensing (DS) profiling program at four locations (DS-MW-13, DS-MW-14, DS-MW-15, and DS-MW-16) to characterize subsurface conditions;
- Based on the results of the DS profiling program, advancement of four direct-push technology (DPT) soil borings co-located with direct-sensing borings
  - » Two soil samples were collected for laboratory analysis [in addition to quality assurance/quality control (QA/QC) samples] at three of the four DPT soil boring locations (SB-MW-12, SB-MW-13, and SB-MW-15) and three soil samples were collected for laboratory analysis at one of the four DPT soil boring locations (SB-MW-14). One soil sample was collected for laboratory analysis and submitted for TCL VOCs, TCL SVOCs, TCL pesticides, TAL metals, and PCBs from approximately the upper 10 feet to assess potential

exposures. The additional soil samples were collected below the approximate upper 10 feet and submitted for analysis of TCL VOCs only; and,

- » Collection of up to two depth-discrete groundwater samples at three of the four DPT soil boring locations (SB-MW-13, SB-MW-14, and SB-MW-15) for laboratory analysis of TCL VOCs.

Following assessment of the analytical data and DS profiling information generated during step one of the off-site SC, the second step consisted of:

- Installation of three shallow groundwater monitoring wells (MW-12, MW-14, and MW-16) to assess groundwater quality. Due to restrictions with drill rig access and location of subsurface utilities, MW-12 was installed during the first step of the off-site SC following completion of the DPT soil boring at SB-MW-12;
- Development of the newly installed monitoring wells and existing monitoring well MW-2;
- Collection of a set of concurrent groundwater level measurements from the newly installed and existing monitoring wells and groundwater samples using low-flow methods from the newly installed monitoring wells and existing well MW-2 to evaluate the direction of groundwater flow and groundwater quality in the overburden beneath the off-site study area.
  - » Groundwater samples were collected for TCL VOCs from newly installed monitoring wells (MW-14 and MW-16) and existing monitoring well (MW-2). Additional samples were also collected and submitted for analysis of 1,4-dioxane, per- and polyfluoroalkyl substances (PFAS), TCL SVOCs, TAL metals, TCL pesticides and PCB analyses. No groundwater samples were collected from MW-12 during the off-site SC as the monitoring well did not produce a sufficient volume of groundwater for sample collection;
- Installation of three soil vapor implants (SV-02, SV-12, and SV-14) co-located with new and existing monitoring wells and collection of soil vapor samples for VOC analysis. No soil vapor implant was installed co-located with monitoring well MW-16 due to the shallow water table that was encountered during installation of the monitoring well. An ambient air sample was also collected for VOC analysis during collection of soil vapor samples;
- Survey of the elevation and location of the surface soil samples, DS profiling locations, DPT soil borings, existing monitoring wells, and the newly installed monitoring wells; and,
- Collection, staging, and characterization and disposal of investigation-derived waste (IDW).

Based on an evaluation and review of the soil, groundwater, and soil vapor sampling data following completion of the additional activities performed during the second step of the off-site SC, a soil vapor intrusion (SVI) investigation was performed at one structure (810 Broadway) to characterize the presence or absence of VOCs in sub-slab and indoor air.

## 1.2. PROJECT OBJECTIVES

The objective of the project was to complete an off-site SC to evaluate for the presence or absence of COCs in soil, groundwater, soil vapor, and indoor air at the off-site study area and to assess the potential exposure pathways and fate and transport of contaminants such that remedial alternatives can be identified and evaluated for as appropriate.

## 1.3. DOCUMENT FORMAT

This SCR is organized into the following sections:

Section 1 – Introduction

Section 2 – Off-Site Study Area Background

Section 3 – Site Characterization Work Activities and Methods

Section 4 – Off-Site Study Area Characteristics

Section 5 – Nature and Extent of Contamination

Section 6 – Fate and Transport of Contaminants of Concern

Section 7 – Conceptual Site Model

Section 8 – Qualitative Human Health Exposure Assessment Summary

Section 9 – Summary and Conclusions

Section 10 – Preliminary Remedial Action Objectives

## 2. OFF-SITE STUDY AREA BACKGROUND

### 2.1. OFF-SITE STUDY AREA LOCATION AND DESCRIPTION

The off-site study area is approximately 1 acre in size and surrounds the BCP Site located at 800 Broadway in the City of Rensselaer, County of Rensselaer, New York. The BCP Site property is bound by Broadway to the west and Partition Street to the south. Mixed-use zoned properties, including residences, bound the property to the east and north, respectively. The adjoining vacant structure to the north of the BCP Site is being redeveloped into an apartment building. A railyard is located across Broadway and Partition Street from the BCP Site to the west and south, respectively, and a convenience/retail petroleum store is located across Partition Street to the southeast. The area of focus for the off-site SC included site investigation activity locations surrounding, but not including, the BCP Site.

## 3. SITE CHARACTERIZATION WORK ACTIVITIES AND METHODS

This section of the SCR contains the work activities and methodologies that were performed during the off-site SC. The off-site SC was conducted between October 2018 and April 2019. Off-site SC field activities were completed in accordance with procedures outlined in the SOW, site-specific requirements, and the previously approved FAP (Parsons and OBG, 2011a), QAPP, and HASP (Parsons and OBG, 2011b, 2011c).

### 3.1. UTILITY CLEARANCE

New York Leak Detection, Inc. (NYLD) was contracted to perform private utility locating to identify potential utilities in the areas where drilling occurred on private property and as a secondary identification of potential utilities and subsurface structures on public property rights-of-way that were marked as part of Dig Safely New York (DSNY). A representative from NYLD performed utility clearance for the DS profiling and DPT soil boring locations on October 8, 2018. NYLD performed a visual inspection in the area of concern to assess for utility structures and mapped water, communication, gas, and storm/sanitary utilities with an RD8100 pipe and cable locator in conductive, inductive, and power/radio modes. A sonde traceable rodder was also used for marking utilities with the RD8100 pipe and cable locator as required.

In addition to the utility mark-out work, NYLD also located existing monitoring well MW-2 that was buried under gravel using Ground Penetrating Radar (GPR) with a Noggin 250/500 megahertz (MHz) locating system.

### 3.2. SURFACE SOIL

Surface soil samples were collected on October 9, 2018 at three locations (SS-01, SS-02, and SS-03) as shown on **Figure 3-1**. Surface soil locations were selected in consultation with and approval from NYSDEC. Surface soil samples were collected as discrete samples for analysis of TCL VOCs by United States Environmental Protection Agency (USEPA) Method 8260C by inserting a 5-gram Encore sampler with a stainless steel T-handle into surface soil from the 0 to 6-inch interval below the vegetative layer, loose cover (i.e., gravel parking), or surface if unvegetated, and immediately capping the 5-gram Encore sampler for analysis. Following collection of VOC sample collection, surface soil samples were collected for analysis of TCL SVOCs by USEPA Method 8270D, TAL metals by USEPA Method 6010C, TCL pesticides by USEPA Method 8081B, TCL PCBs by USEPA Method 8082A, mercury by USEPA Method 7471B, and cyanide by USEPA Method 9012B by taking surface soil with a disposable

scoop from the 0 to 2-inch interval below the vegetative layer, loose cover (i.e., gravel parking), or surface if unvegetated, and placing the soil into a disposable aluminum pan. Once the soil was placed into the disposable aluminum pans, the soil was homogenized prior to placing the soil into the laboratory supplied containers for analysis. Soil samples, and associated QA/QC samples, were submitted under chain-of-custody procedures to TestAmerica Laboratory in Amherst, New York for analysis.

### 3.3. DIRECT-SENSING PROFILING

DS profiling was performed by Cascade Technical Services, LLC. (Cascade) under supervision from OBG from October 10, 2018 through October 12, 2018 at four locations (DS-MW-13, DS-MW-14, DS-MW-15, and DS-MW-16) as shown on **Figure 3-1**. DS locations were selected in consultation with and approval from NYSDEC. Profiling was completed to approximately 47.9 feet below grade (ft bg), refusal, at DS-MW-13, approximately 46.3 ft bg, refusal at DS-MW-14, approximately 45.9 ft bg, refusal, at DS-MW-15, and approximately 25 ft bg at DS-MW-16. DS profiling was completed using direct-push drilling techniques. Each drilling location was hand-cleared to a minimum depth of 5 ft bg.

DS profiling was performed to develop a semi-quantitative characterization of subsurface conditions in real time. Integrated low-level membrane interface probe (LL-MIP) and hydraulic profiling tool (HPT) (hereafter referred as MiHPT) profiling was performed to characterize VOCs in the subsurface and create a hydrostratigraphic log to identify potential transmissive zones at each DS location. As the MiHPT is advanced through the subsurface, a heater block on the probe increases the volatility of VOCs in the subsurface (saturated and unsaturated), and the VOCs diffuse across a semi-permeable membrane into an inert gas loop. The vapors flow within the loop to equipment stationed at the surface and are analyzed in real time. The MiHPT system was configured with a flame ionization detector (FID), photoionization detector (PID), and halogen-specific detector (XSD). Although not required per the SOW, an electron capture detector (ECD) was also configured into the MiHPT system. The detectors output responses in microvolts ( $\mu\text{V}$ ). The FID and PID detect total VOCs, with the PID more sensitive to aromatic hydrocarbon compounds. The ECD and XSD are highly sensitive to chlorinated compounds. The greater response from the detector can be an indication of greater VOC concentrations in the subsurface. The chlorinated solvent detection limit for an LL-MIP configuration can be as low as 10  $\mu\text{g/L}$ .

The integrated HPT system continuously measures the pressure response of the formation to the constant injection of water as the MiHPT probe is advanced through the subsurface. The data generated from the HPT system are plotted as injection pressure and flow rate vs. depth. Lower injection pressure corresponds to higher subsurface permeability while higher injection pressure indicates a lower permeability. Additionally, dissipation testing was performed to determine static water level and provide an estimation of hydraulic conductivity. Up to two dissipation tests were performed at each DS profiling location. Dissipation tests were performed at 18.9 ft bg at DS-MW-13, 25.9 and 46.3 ft bg at DS-MW-14, 45.9 ft bg at DS-MW-15, and approximately 16.1 and 25 ft bg at DS-MW-16. However, none of the six dissipation tests achieved a stabilized HPT pressure under the zero-flow condition over a 15-minute period (as specified in the SOW) due to the low-permeability soil encountered at the off-site study area.

An electrical conductivity (EC) sensor is integrated with the MiHPT probe and also provides a continuous log of soil conductivity with depth to identify variations in subsurface lithology. In general, EC responses are inversely proportional to grain size; that is, higher EC values correspond to small grained sized particles (e.g., silt and clay), and low EC values generally correspond with coarse grain sizes (e.g., sand and gravel).

Response testing was completed prior to advancing the MiHPT and after logging was completed at each DS location to confirm the quality and validity of the data and the integrity of the system. The response testing provides a traceable indication that the MiHPT detectors are adequately responding and allows the carrier gas trip time to be calculated on the physical components of the system. Plots of the ECD, XSD, PID, and FID detectors, HPT pressure and flow rate, and EC are provided as **Appendix A**.

Following completion of the DS profiling, each location was tremie grouted by introducing grout through the casing from the terminal depth of the boring to the surface.

DS profiling equipment was decontaminated prior to use at the off-site study area, after logging at each location, and following completion of logging using a non-phosphate detergent wash followed by a potable water rinse. Decontamination fluids generated were containerized in Department of Transportation (DOT)-approved 55-gallon steel drums at the off-site study area for characterization and proper disposal.

### 3.4. DIRECT PUSH SUBSURFACE SOIL AND DISCRETE-INTERVAL GROUNDWATER SAMPLING

A total of four soil borings were advanced after the completion of DS profiling. Three DPT soil borings (SB-MW-13, SB-MW-14, and SB-MW-15) were advanced adjacent to DS profiling locations to correlate the VOC data generated during the profiling while performing soil and discrete-interval groundwater sample collection. One additional soil boring (SB-MW-12) was also advanced south of 800 Broadway on the south side of Partition Street with a manual slide hammer due to restrictions with drill rig access at this location. Direct push subsurface soil and discrete-interval groundwater sampling were performed from October 15, 2018 through October 16, 2018. Drilling services were performed by Cascade under the supervision of an OBG geologist. The locations of the soil borings are shown on **Figure 3-1**. Soil boring locations were selected in consultation with and approval from NYSDEC. Each drilling location was hand-cleared to a minimum depth of 5 ft bg.

Soil borings were installed in accordance with the SOW and Section 2.1.1 of the FAP. Soil samples were collected continuously with a macrocore utilizing a manual slide hammer or direct-push drilling techniques. Soil borings were advanced to 14 ft bg, refusal, at SB-MW-12, 36 ft bg at SB-MW-13, and 25 ft bg at locations SB-MW-14 and SB-MW-15. Upon retrieval of the macrocore samples, each soil sample was described for: 1) percent recovery; 2) soil type; 3) color; 4) moisture content; 5) texture; 6) grain size and shape; 7) consistency; 8) evidence of staining or other chemically-related impacts; and 9) any other relevant observations. Soil samples were also screened for evaluation of bulk volatile organic concentration with a PID capable of reading in the ppb level.

In consultation with and approval from NYSDEC, sampling intervals were selected based on the results of the MiHPT evaluation and physical observations during logging and screening of the soil samples. Per the SOW, one subsurface soil sample was collected at approximately 10 ft bg at SB-MW-12, SB-MW-13, SB-MW-14, and SB-MW-15 for analysis of TCL VOCs by USEPA Method 8260C, TCL SVOCs by USEPA Method 8270D, TAL metals by USEPA Method 6010C, TCL pesticides by USEPA Method 8081B, TCL PCBs by USEPA Method 8082A, mercury by USEPA Method 7471B, and cyanide by USEPA Method 9012B. One additional subsurface soil sample collected at SB-MW-12, SB-MW-14, and SB-MW-15 and two additional samples collected at SB-MW-13 were analyzed for TCL VOCs by USEPA Method 8260C. Soil samples were collected at SB-MW-12 from 12.4 to 12.5 ft bg, SB-MW-13 from 22 to 22.2 and 35.8 to 36 ft bg, SB-MW-14 from 23 to 23.2 ft bg, and SB-MW-15 from 20.9 to 21.1 ft bg. Soil samples, and associated QA/QC samples, were submitted under chain-of-custody procedures to TestAmerica Laboratory in Amherst, New York for analysis. Soil borings logs are provided in **Appendix B**.

In addition to the soil samples, discrete-interval groundwater sampling was performed at up to two depth-discrete intervals based on the results of the MiHPT evaluation. Discrete-interval sample depths and locations were selected in consultation with and approval from NYSDEC. Discrete-interval groundwater sample collection was attempted utilizing a dual tube groundwater sampling system equipped with either a disposable small-diameter slotted polyvinyl chloride (PVC) screen or properly decontaminated slotted stainless steel screen (i.e., sealed-screen sampling system) advanced utilizing direct-push drilling techniques. Discrete-interval groundwater samples were attempted at two intervals at soil boring SB-MW-13, from 12 to 16 and 16 to 20 ft bg, and one interval from SB-MW-14 and SB-MW-15, from 19 to 23 ft bg and 16 to 20 ft bg, respectively. Due to the low permeability of the soils encountered, no discrete groundwater samples were able to be collected from any of the intervals attempted.

Following completion of the soil sampling and discrete-interval groundwater sampling work, each DPT soil/groundwater boring was tremie grouted by introducing grout through the casing from the terminal depth of the boring to the surface and completed to match the surrounding surface.

Direct-push sampling equipment was decontaminated prior to use at the off-site study area, following drilling and sampling at each soil/groundwater boring location, and following completion of soil boring and discrete-interval groundwater sampling using a non-phosphate detergent wash followed by a potable water rinse. The

decontamination fluids and soil cuttings were containerized in DOT-approved 55-gallon steel drums at the off-site study area for characterization and proper disposal.

### 3.5. MONITORING WELL NETWORK AND GROUNDWATER ELEVATION MONITORING

Four monitoring wells (MW-2, MW-5, MW-6, and MW-7) constitute the existing monitoring well network at the BCP Site. During implementation of the off-site SC, three additional new monitoring wells (MW-12, MW-14, and MW-16) were installed to supplement the existing monitoring well network. New monitoring well locations were selected in consultation with and approval from NYSDEC. Groundwater level measurements were collected on January 9 and January 10, 2019 during groundwater sample collection activities using an electronic water level probe with an accuracy of 0.01 feet. Monitoring well construction details are provided on **Table 3-1**. Groundwater elevation data are summarized on **Table 3-2**. The locations of the monitoring wells are shown on **Figure 3-1**.

### 3.6. OVERBURDEN GROUNDWATER CHARACTERIZATION

#### 3.6.1. Monitoring Well Installation

As discussed above, three additional monitoring wells (MW-12, MW-14, and MW-16) were installed at the off-site study area based on the results of the MiHPT survey and discrete soil sampling. No soil sampling was performed during monitoring well installation with the exception of monitoring well MW-16 where no soil boring was completed following the DS profiling. The soil boring at MW-16 was completed in accordance with the procedures outlined in **Section 3.4** above. No analytical samples were submitted for analysis during logging. The overburden monitoring wells were installed utilizing direct-push drilling techniques in accordance with the SOW and Section 2.2 of the FAP. The monitoring wells were installed on December 11 and 12, 2018 by Cascade under the direction and supervision of an OBG geologist. Each drilling location was hand-cleared to a minimum depth of 5 ft bg.

MW-12 was installed following completion of the soil boring by advancing a hand auger prior to installation of five feet of 1-inch inner diameter, 0.010-inch slot schedule 40 PVC well screen and filter pack with flush threaded bottom plug. The well screen was flush thread to appropriate lengths of 1-inch inner diameter schedule 40 PVC riser to bring the top of the well to grade. A bentonite seal was installed above the filter pack in the remainder of the borehole annulus. The monitoring well was completed with a 4-inch flush-mount curb-box and an approximate 1-foot diameter concrete well pad.

Monitoring wells MW-14 and MW-16 were installed by advancing a 4-inch borehole prior to installation of 10 feet of 2-inch inner diameter, 0.010-inch slot schedule 40 PVC prepacked well screen and filter pack with flush threaded bottom plug. The well screen was flush thread to appropriate lengths of 2-inch inner diameter schedule 40 PVC riser to bring the top of the well to grade. Choke sand was installed above the filter pack below a bentonite chip seal and the remainder of the borehole annulus was filled with cement-bentonite grout. Monitoring wells were completed with a 6-inch flush-mount curb-box and an approximate 2-foot diameter concrete well pad. Well completion logs are provided in **Appendix C**.

Soil cuttings and decontamination fluids generated during the monitoring well installation were containerized in DOT-approved 55-gallon steel drums at the off-site study area for characterization and proper disposal.

Drilling and sampling equipment used for installation of the soil boring and monitoring wells was decontaminated using non-phosphate detergent followed by a potable water rinse.

#### 3.6.2. Monitoring Well Development

Following installation of the monitoring wells, monitoring wells MW-14 and MW-16 were developed on December 13 and 14, 2018. Monitoring well MW-2 was also redeveloped on December 13, 2018. No development activities could be completed from monitoring well MW-12 due to the limited amount of water in the monitoring well. Monitoring wells were developed no earlier than 24 hours following well installation. Development activities were performed in accordance with the SOW and Section 2.3 of the FAP. Development was performed by surging and purging the well using a bailer and dedicated Waterra tubing and Delrin acetal



thermoplastic foot valves to remove the fine-grained material from the well that may have settled within the well and to provide better hydraulic communication with the surrounding formation. Groundwater parameters were measured and recorded initially at the start of development, after removal of each well volume during development, and at the conclusion of development. Parameters measured during development and the units of measure included:

- Turbidity [Nephelometric Turbidity Units, (NTU)];
- pH (Standard Units);
- Temperature (Degrees Celsius); and
- Specific Conductance [Millisiemens per Centimeter, (mS/cm)].

Water levels were measured prior to and following the completion of well development with an electronic water level probe with an accuracy of 0.01 feet. Well development continued until ten well volumes were removed from each monitoring well, the discharge water from the well had a measured turbidity of 50 NTU or less, or pH, temperature, and specific conductance stabilized. If the monitoring well went dry during development and did not recharge sufficiently within one-hour to remove 10 well volumes before going dry a second time, well development would be considered complete when the well went dry a third time. Well development logs are provided in **Appendix D**.

### 3.6.3. Groundwater Sampling

One round of groundwater sampling was performed at a sub-set of existing and new monitoring wells in the monitoring well network. Groundwater samples were collected from existing monitoring well MW-2 and new monitoring wells MW-14 and MW-16. Groundwater sample collection was performed on January 9 and 10, 2019 in accordance with the SOW and Section 2.5 of the FAP.

Prior to collection of groundwater samples, groundwater from within the monitoring well was measured to the nearest 0.01 feet using an electronic water level probe. Groundwater samples were collected by utilizing low-flow purging techniques with dedicated tubing and PFAS-free bladders using a QED portable bladder pump. New PFAS-free bladders were utilized at each monitoring well sampled. The intake of the bladder pump was positioned in the center of the screened interval prior to purging from the well. Monitoring wells were purged at a flow rate of 100 milliliters per minute (ml/min) to 500 ml/min or a flow rate that reduced the water-level drawdown in the well. Parameters were measured using a water quality meter and flow-through cell during purging consisting of pH, specific conductance, temperature, oxidation-reduction potential (Redox), dissolved oxygen (DO), and turbidity. Groundwater samples were collected after stabilization of water quality parameters. Stabilization of parameters was defined as:

- Temperature (Degrees Celsius)      ±3% of measurement
- pH (Standard Units)                    ±0.1 pH units
- Specific Conductance (mS/cm)        ±3% of measurement
- Redox                                        ±10 mV
- DO [milligrams/liter (mg/l)]           ±10% of measurement
- Turbidity (NTU)                         ±10% of measurement

In addition to measuring water quality parameters and flow rates during purging, depth to groundwater measurements were collected and recorded on the low-flow groundwater sampling log. Groundwater elevation data are summarized on **Table 3-2**. Groundwater sampling logs are provided as **Appendix E**.

Groundwater samples were collected for TCL VOCs by USEPA Method 8260C, TCL SVOCs by USEPA Method 8270D, 1,4-dioxane by USEPA Method 8270D SIM, TAL metals by USEPA Method 6010D, TCL pesticides by USEPA Method 8081B, TCL PCBs by USEPA Method 8082A, cyanide by USEPA Method 9012B, mercury by USEPA Method 7470A, and PFAS by USEPA Method 537 (expanded list of 21 analytes). Groundwater samples

were submitted under chain-of-custody procedures to TestAmerica Laboratory in Edison, New Jersey and West Sacramento, California for analysis.

### 3.7. SOIL VAPOR POINT INSTALLATION AND SAMPLING

To evaluate soil vapor quality in the vicinity of the off-site study area, permanent soil vapor points were installed at three locations (SV-02, SV-12, and SV-14) as shown on **Figure 3-1**. Soil vapor point locations were selected in consultation with and approval from NYSDEC. Soil vapor points were installed on December 11 and 12, 2019 utilizing direct-push drilling techniques for locations SV-02 and SV-14 and manually using a hand auger at location SV-12 in accordance with the SOW and Section 2.10.2 of the FAP. The soil vapor points were installed as permanent installations by Cascade under the direction and supervision of an OBG geologist. Each drilling location was hand-cleared to a minimum depth of 5 ft bg.

Soil vapor points at SV-02 and SV-14 were installed within a 2.25-inch borehole advanced using direct-push drilling techniques. The soil vapor point at SV-12 was installed by removing soil from within the borehole to create a nominal 3.25-inch borehole with the hand auger. Soil vapor points were constructed of 6-inch long, stainless steel, braided screen implant probes attached to Teflon<sup>®</sup>-lined tubing. Each soil vapor point was constructed so that the implant probe was installed approximately two to three feet above the water table. The annular space around the probe and braid screen was filled with 60-100 mesh glass beads to approximately two feet above the implant probe. A granular bentonite seal was placed above the glass beads to prevent ambient air infiltration. The soil vapor points were completed with 4-inch diameter bolt-down flush-mount road boxes set in an approximate 1-foot diameter concrete pad flush to the existing grade.

Direct-push drilling equipment and the hand auger used during the installation of the soil vapor points was decontaminated using non-phosphate detergent followed by a potable water rinse.

Soil cuttings and decontamination fluids generated during the soil vapor point installation were containerized in DOT-approved 55-gallon steel drums at the off-site study area for characterization and proper disposal.

All three soil vapor points (SV-02, SV-12, and SV-14) were sampled on January 3, 2019. Soil vapor samples were collected in 6-liter batch-certified SUMMA<sup>®</sup> canisters with a 2-hour integrated sample period at a flow rate not to exceed 200 ml/min in accordance with *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2017). Prior to sample collection, helium tracer gas testing was conducted to assess the integrity of the surface seal associated with the sampling tubing. Testing conducted during sampling activities did not indicate integrity issues prior to sample collection. Soil vapor sampling forms are provided in **Appendix F**. Soil vapor samples, including an ambient air sample and associated QA/QC samples, were submitted to TestAmerica in Burlington, Vermont for analysis of the standard list of VOCs by USEPA Method TO-15.

### 3.8. VAPOR INTRUSION SAMPLING

Based on a review of the analytical results generated as part of the soil vapor sampling and consultation with the NYSDEC and NYSDOH, additional SVI investigation activities were completed at one structure, 810 Broadway. Following property owner approval, an initial round of SVI sampling was performed during the heating season on March 11 and 12, 2019. SVI sampling was performed consistent with the *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2017). Sample locations were selected in consultation with and approval from NYSDEC. Sub-slab samples were collected in 6-liter batch-certified SUMMA<sup>®</sup> canisters. Indoor air and ambient air samples were collected in 6-liter individually-certified SUMMA<sup>®</sup> canisters. Sampling was completed over a 24-hour integrated sample period at the property. Ambient air samples were collected over the same integrated sampling period as the sub-slab and indoor air samples with which they were associated. Prior to performing sub-slab sample collection, helium tracer gas testing was conducted to assess the integrity of the surface seal associated with the sampling tubing. Testing conducted during sampling activities did not indicate integrity issues prior to sample collection. Soil vapor samples, including an ambient air sample and associated QA/QC samples, were submitted to TestAmerica in Burlington, Vermont for analysis of the standard list of VOCs by USEPA Method TO-15.

Following an assessment of the analytical results with the NYSDEC and NYSDOH, additional sub-slab sampling was performed at 810 Broadway based on the concentrations of VOCs detected in the indoor air sample that was collected during the initial round of SVI sampling in the sub-basement. The supplemental sampling event was performed from April 9 to 11, 2019. Sub-slab samples were collected in 6-liter batch-certified SUMMA® canisters over a 24-hour integrated sample period. Prior to performing sub-slab sample collection, helium tracer gas testing was conducted to assess the integrity of the surface seal associated with the sampling tubing. Testing conducted during sampling activities did not indicate integrity issues prior to sample collection. The additional soil vapor samples were submitted to TestAmerica in Burlington, Vermont for analysis of the standard list of VOCs by USEPA Method TO-15.

To support the evaluation of the vapor data, an aqueous sample was collected from the sub-basement sump, which was observed to contain several inches of standing water. The sub-basement sump water sample was collected on April 9, 2019 with NYSDEC approval. The sub-basement sump sample was collected following the procedures outlined in Section 2.8 of the FAP. The sump water sample was collected by submerging dedicated unpreserved laboratory glassware below the water surface in the sump and transferring the contents to 40-milliliter vials preserved with hydrochloric acid taking care not to overfill the sample bottles and lose preservative during sample collection. The sump sample was submitted to TestAmerica in Edison, New Jersey for analysis of TCL VOCs by USEPA Method 8260C. Sampling forms associated with the SVI and sub-basement sump sampling are provided in **Appendix G**.

### 3.9. AIR MONITORING

The following sections describe the air quality monitoring performed during the off-site SC ground-intrusive activities.

#### 3.9.1. Work Zone

The breathing zone air quality of workers in the immediate work zone was monitored during ground-intrusive activities. VOC vapor concentrations were monitored at the start, and during subsurface investigation activities using a PID with a 10.6 electron volt (eV) lamp. The PID was calibrated per manufacturers' specifications using a 100 part per million (ppm) isobutylene calibration gas.

#### 3.9.2. Community Air Monitoring Program

The purpose of a community air monitoring program is to protect potential off-site receptors outside of the work zone from exposure to potential organic vapors and particulate dusts during the implementation of intrusive work activities. Real-time air monitoring was performed upwind and downwind of the immediate work zone during ground intrusive activities implemented as part of the off-site SC. A PID with a 10.6 eV lamp was used to monitor total organic vapor concentrations while an aerosol monitor was used to monitor for particulates. The monitors were housed in an enclosure equipped with audible alarms. Available community air monitoring data are provided in **Appendix H**.

### 3.10. DATA VALIDATION

Analytical laboratory data was received in electronic data deliverable (EDD) format. Data validation was performed by Vali-Data of WNY, LLC. located in West Falls, New York. The data usability summary reports (DUSR) are provided in **Appendix I**.

### 3.11. SURVEY

Thew Associates PE-LS, PLLC. (Thew) was subcontracted to perform survey work at the off-site study area. Thew performed surveying activities on January 3, 2019 under the supervision of OBG. Surveying was completed for each DS MiHPT location, subsurface soil/groundwater boring, surface soil locations, existing and new monitoring wells, and soil vapor point locations. Horizontal coordinates were surveyed to North American Datum of 1983 (NAD 83) projected on the New York State Plane Coordinate System (East Zone). Vertical datum was referenced to North American Vertical Datum of 1988 (NAVD 88). Elevations for ground surface were

provided to the nearest 0.1 feet. Elevations for the top of casing and measuring point elevations were provided to the nearest 0.01 feet. Survey data is provided on **Table 3-1**.

### 3.12. INVESTIGATION-DERIVED WASTE MANAGEMENT

IDW including, but not limited to, drill cuttings, decontamination fluids, well development water, and purge water were placed in DOT-approved 55-gallon drums and temporarily staged in the gravel parking lot on parcel 143.52-3-20 following approval from the property owner. IDW generated from private and public work areas was contained and staged together. Material was separated by media for characterization and disposal. Each type of IDW was placed into DOT-approved 55-gallon drums and properly labeled prior to characterization.

One composite soil sample was collected from each of the drummed soil IDW for analysis of Toxicity Characteristic Leaching Procedure (TCLP) VOCs by USEPA Method 8260C, TCLP SVOCs by USEPA Method 8270D, TCL pesticides by USEPA Method 8081B, TCL PCBs by USEPA Method 8082A, TCLP Metals by USEPA Method 6010C, TCLP mercury by USEPA Method 7470A, cyanide by USEPA Method 9012B, herbicides by USEPA Method 8151A, cyanide reactivity by USEPA Method 9012, sulfide reactivity by USEPA Method 9034, ignitability (flashpoint) by USEPA Method 1010A, and corrosivity (pH) by USEPA Method 9045D. Additionally, one mixed water sample was collected from drummed water IDW for analysis of TCL VOCs by USEPA Method 8260C, TCL SVOCs by USEPA Method 8270D, cyanide reactivity by USEPA Method 9012, sulfide reactivity by USEPA Method 9034, ignitability (flashpoint) by USEPA Method 1010A, and corrosivity (pH) by USEPA Method 9040C. Waste characterization sampling was completed on December 13, 2018 and January 4, 2019. Waste characterization samples were submitted to TestAmerica in Amherst, New York and Edison, New Jersey for analysis.

Following characterization and generation of waste profiles, IDW disposal was performed by Veolia ES Technical Solutions, LLC. (Veolia). Veolia was at the off-site study area on February 14, 2019, to pick-up IDW for proper transportation and disposal. IDW was disposed of as non-hazardous waste in accordance with the SOW and applicable local, state, and federal regulations. Completed waste manifests are included as **Appendix J**.

## 4. OFF-SITE STUDY AREA CHARACTERISTICS

As discussed in **Section 3**, investigation activities were completed during the off-site SC to assess the off-site study area characteristics. These activities included:

- Surface Soil Sampling;
- DS Profiling;
- Direct-Push Subsurface Soil and Discrete-Interval Groundwater Sampling;
- Monitoring Well Installation;
- Groundwater Elevation Monitoring and Sampling;
- Soil Vapor Sampling; and
- Soil Vapor Intrusion and Sump Sampling.

In addition to the off-site SC investigation activities, information and data from prior investigations at the BCP Site, or in the immediate vicinity (ARCADIS, 2012, ARCADIS, 2013, Hanson Van Vleet, 2016, Aztech Environmental Technologies [Aztech], 2017, and Aztech, 2019), have been incorporated into the following discussions as appropriate. The following summarizes the off-site study area characteristics based on the information generated during the off-site SC and previous investigation activities.

### 4.1. OFF-SITE STUDY AREA GEOLOGY

#### 4.1.1. Overburden Geology

Subsurface soils were evaluated during the investigation performed as part of the phase II ESA (ARCADIS, 2013) and during the off-site SC as part of the DS profiling, direct-push subsurface soil, and monitoring well installation

activities. The deepest borings with semi-qualitative data were advanced to refusal, approximately 46 to 48 ft bg, during the DS profiling investigation as part of the off-site SC. The deepest direct-push subsurface soil boring was advanced to 36 ft bg at SB-MW-13 during the off-site SC. Subsurface soils encountered during the off-site SC were generally composed of a fill sequence approximately 9 to 12 feet in thickness (10 feet thick at SB-MW-12, 9.3 feet thick at SB-MW-13, 11.9 feet thick at SB-MW-14, and 12 feet thick at SB-MW-15). The fill consisted of coarse-to-fine sand with varying amounts of gravel, silt, and clay overlying clayey-silt and silt with smaller amounts of sand and gravel. The fill sequence was not encountered at SB-MW-16 due to poor recovery. The base of the fill sequence occasionally consisted of a humic layer with roots and organic material separating the non-native fill from native material below. Brick debris was also observed during logging at SB-MW-15 and based on data generated during installation of soil boring MW-2. Material below the fill sequence, from approximately 12 feet to 36 feet, consisted of a continuous sequence of silt, silty-clay, or clayey-silt with infrequent seams of medium-to-fine sand. This is also consistent with the semi-qualitative data generated using the EC sensor that was collected as part of the DS profiling investigation.

#### 4.1.2. Bedrock Geology

Bedrock was not encountered during the off-site SC drilling activities, nor was it encountered during the previous investigations performed at or in the vicinity of the BCP Site (ARCADIS, 2012, ARCADIS, 2013, Hanson Van Vleet, 2016, and Aztech, 2017). The bedrock geology underlying the off-site study area is composed of sedimentary rock of the Canajoharie Shale that is of Middle Ordovician origin (Hanson Van Vleet, 2016).

## 4.2. HYDROGEOLOGIC SETTING

Characterization of the overburden hydrogeology across the off-site study area was based on groundwater level data and hydraulic gradients.

### 4.2.1. Groundwater Level Data

One round of synoptic groundwater level monitoring was performed as part of the off-site SC. The groundwater levels were converted to groundwater elevations using the off-site study area survey data. Groundwater elevations are tabulated on **Table 3-2** and plotted as groundwater contours on **Figure 4-1**. The water levels in the overburden unit range from approximately 37.7 feet NAVD 88 at monitoring well MW-16 which is located on the east side of the off-site study area, to approximately 26.1 to 26.8 feet NAVD 88 at monitoring wells MW-2 and MW-14, respectively, which are located in the north-northwest portion of the off-site study area. The groundwater elevations in the overburden suggest groundwater flow is to the northwest towards the Hudson River which is also consistent with the direction of groundwater flow during previous investigations at the BCP Site.

### 4.2.2. Hydraulic Gradients

The average horizontal hydraulic gradient in the overburden was calculated to be 0.086 feet per feet (ft/ft) based on the contours of the groundwater elevations generated from the depths to groundwater measured during January 2019.

## 5. NATURE AND EXTENT OF CONTAMINATION

This section presents the nature and extent of BCP Site-related COCs in surface and subsurface soils, overburden groundwater, soil vapor, and sub-slab and indoor air.

Concentrations of detected constituents in soil are compared to 6 NYCRR Part 375 Commercial Use, Industrial Use, Residential Use, Restricted-Residential Use, and Unrestricted Use Soil Cleanup Objectives (SCOs) and NYSDEC CP-51 SCOs for Residential Use to provide context for describing the nature and extent of the impacts to soil. 6 NYCRR Part 375 Residential, Restricted-Residential, and Unrestricted Use SCOs for the Protection of Groundwater Resources (Protection of Groundwater SCOs) and CP-51 Protection of Groundwater SCOs are used as criteria to identify soil impacts potentially affecting groundwater quality. Specifically, the BCP Site-related COCs detected in soils that were also detected in groundwater at concentrations above standards, criteria, and guidance (SCGs) are compared to the Protection of Groundwater SCOs.

Groundwater results were compared to the NYSDEC Division of Water, Technical and Operational Guidance Series (TOGs) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations including surface water and groundwater quality standards set forth in 6 NYCRR Part 703, for Class GA groundwater. Since there is currently no Class GA standard for perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic acid (PFOS), these results were compared to the USEPA lifetime health advisory.

Sub-slab and indoor air analytical results are compared to the Soil Vapor/Indoor Air matrices provided in the *NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2017).

## 5.1. SURFACE AND SUBSURFACE SOIL

During the DS profiling investigation, elevated EC responses above baseline levels were observed at DS locations DS-MW-13, DS-MW-14, and DS-MW-15. An elevated response for the XSD, PID, and FID above baseline levels was also observed at DS-MW-14. As stated above, the PID and FID detect total VOCs, with the PID more sensitive to aromatic hydrocarbon compounds. The XSD is more sensitive to chlorinated compounds. The minor elevated PID, FID, and XSD responses above baseline at DS-MW-14 occurred at approximately 13 ft bg. The elevated EC responses at DS-MW-13, DS-MW-14, and DS-MW-15 occurred at approximately 14 to 14.5 ft bg and 19 ft bg at DS-MW-13, approximately 10 ft bg at DS-MW-14, and approximately 8 ft bg and 12 ft bg at DS-MW-15. The elevated EC responses may be attributed to metallic non-native material at DS-MW-15 that was observed during logging at SB-MW-15 and during installation of the soil boring at MW-2. The elevated responses observed during the DS profiling investigation could indicate the potential presence of low level concentrations of BCP Site-related COCs (see **Appendix A**) and were used to target collection of the subsurface soil samples discussed below.

During implementation of the off-site SC, surface soil samples were collected from three locations (SS-01, SS-02, and SS-03) at the off-site study area. Additionally, nine subsurface soil samples were collected from soil borings advanced adjacent to DS profiling locations DS-MW-13, DS-MW-14, and DS-MW-15, and at soil boring SB-MW-12. Surface soil samples were collected for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals, mercury, and cyanide. Subsurface soil samples were collected from approximately the upper 10 feet to assess potential exposures for TCL VOCs, TCL SVOCs, TCL pesticides, TCL PCBs, TAL metals, mercury, and cyanide and from below 10 feet to assess vertical and lateral distribution of potential BCP Site-related COCs for TCL VOCs. Prior to the installation of monitoring well MW-16, subsurface soil samples were collected from SB-MW-16 for descriptive purposes and field screened for the potential presence of VOCs using a PID capable of reading in the ppb level.

### 5.1.1. Surface and Subsurface Soil Characterization Summary

Analytical data for surface and subsurface soil associated with samples collected during the off-site SC are provided on **Table 5-1** and **Table 5-2**, respectively. The tables also provide comparison of the detected BCP Site-related COCs to SCOs.

VOCs were not detected in surface soil samples. As shown on **Table 5-1**, exceedances for SVOCs, pesticides, and inorganics are present in surface soil samples. Only one exceedance occurred at SS-01. Iron exceeded the CP-51 Residential Use SCO at a biased high estimated concentration of 16,000 mg/kg. At SS-02, exceedances of one or more 6 NYCRR Part 375 SCOs for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene were observed. Iron, lead, and zinc exceedances were also observed from the sample collected at SS-02 exceeding the CP-51 Residential Use SCOs or the 6 NYCRR Part 375 Unrestricted Use SCOs for soil. Exceedances occurred at SS-03 for one or more 6 NYCRR Part 375 SCOs for 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. 4-4-DDE and 4-4-DDT exceeded the 6 NYCRR Part 375 Unrestricted Use SCO for soil with an estimated concentration of 0.02 and a concentration of 0.021 mg/kg, respectively. Copper, iron, lead, mercury, silver, and zinc also exceeded applicable SCOs from the sample collected at location SS-03.

As shown on **Table 5-2**, with the exception of two exceedances of acetone, a common laboratory contaminant, at soil boring SB-MW-13, no additional VOCs were above applicable SCOs. Exceedances for inorganics are present

in subsurface soil samples at SB-MW-12 from 8 to 9 ft bg, SB-MW-13 from 9 to 10 ft bg, SB-MW-14 from 10 to 13 ft bg, and SB-MW-15 from 9 to 10 ft bg. Arsenic, barium, copper, iron, lead, mercury, nickel, and zinc exceedances occurred for one or more 6 NYCRR Part 375 SCOs. A single exceedance for pesticides is present at SB-MW-15 from the sample collected from 9 to 10 ft bg. 4-4-DDT was detected with an estimated concentration of 0.035 mg/kg.

### 5.1.2. Surface and Subsurface Soil Characterization Discussion

As shown on **Table 5-1** and **Table 5-2**, the analytical results for the surface and subsurface soil show minimal VOC detections associated with BCP Site-related COCs. No VOCs were detected in surface soil samples. A single detection of PCE with an estimated concentration of 0.00096 mg/kg was observed at location SB-MW-15 from 9 to 10 ft bg which was well below all applicable SCOs. The DS profiling logs provided in **Appendix A** show minimal increases in detector concentrations from the ECD, XSD, PID, and FID detectors which supports the analytical results for the subsurface soil samples collected from SB-MW-13, SB-MW-14, and SB-MW-15.

As shown on **Table 5-1**, the analytical results for surface soil samples show regulatory exceedances for SVOCs including 2-methylnaphthalene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene. These polycyclic aromatic hydrocarbons (PAHs) are not consistent with potential BCP Site-related COCs and a majority of the detected SVOCs are often associated with the incomplete combustion of vehicle exhausts. Two of the three surface soil sampling locations, (SS-01 and SS-03), are located in an active gravel fill parking lot on the northern portion of the off-site study area with frequent vehicle traffic. The third surface soil sampling location, SS-02, is located adjacent to a busy street, Broadway, with frequent vehicle traffic. With the exception of one detection of silver at SS-03, the detections for copper, iron, lead, mercury, and zinc are consistent with the metals detected during the RI investigation performed for the BCP Site (Hanson Van Vleet, 2016) and concentrations are within the same order of magnitude. The two pesticide detections of 4-4-DDE and 4-4-DDT exceed the 6 NYCRR Part 375 Unrestricted Use SCOs but are consistent or an order of magnitude lower than the two pesticides that were detected in the samples collected during the RI investigation performed for the BCP Site (Hanson Van Vleet, 2016).

As shown on **Table 5-2**, the analytical results for the subsurface soil samples show one exceedance for pesticides at location SB-MW-15. 4-4-DDT exceeded the 6 NYCRR Part 375 Unrestricted Use SCO. A number of metals exceeded applicable SCOs, however, the exceedances were concentrated in the samples collected from the approximate upper 10 feet of subsurface soil which is consistent with the depth of the non-native fill or the interface between the non-native fill and the underlying native materials. The metals exceedances can be attributed to naturally occurring materials and/or trace amounts of metallic debris associated with the non-native fill which is supported by the data collected from the EC sensor during the DS profiling investigation.

## 5.2. GROUNDWATER

During implementation of the off-site SC, one set of groundwater samples was collected between January 9 and 10, 2019 (first quarter 2019) from two new (MW-14 and MW-16) and one existing (MW-2) monitoring wells. No groundwater samples were collected from new monitoring well MW-12 because there was not a sufficient volume of water in the well for sample collection.<sup>1</sup> Groundwater samples were analyzed for TCL VOCs, TCL SVOCs, 1,4-dioxane, TAL metals, TCL pesticides, TCL PCBs, cyanide, and PFAS. **Table 5-3** presents the off-site SC groundwater data in comparison to the applicable SCGs. The monitoring well locations are depicted on **Figure 3-1**. In addition, Aztech collected groundwater samples for TCL VOCs analysis from existing monitoring wells MW-5, MW-6, and MW-7 on February 14, 2019 (first quarter 2019, Aztech, 2019) as part of the BCP Site groundwater monitoring plan. These results are presented in the quarterly monitoring report prepared by Aztech (see **Exhibit A**) and are included in the following groundwater characterization summary.

<sup>1</sup> Additional attempts were made to collect groundwater samples from MW-12 on February 14, 2019 and April 9, 2019. Both attempts were also unsuccessful because there was not a sufficient volume of water in the well for sample collection.

### 5.2.1. Groundwater Characterization Summary

As discussed above, the off-site SC groundwater data is supplemented by the BCP Site routine groundwater monitoring data (VOCs only) from the same quarter. Based on the combined datasets, VOCs were not detected in upgradient existing well MW-7 and new monitoring well MW-16. Chlorinated volatile organic compounds (CVOCs) were detected above SCGs at existing monitoring well MW-5, located near the former BCP Site dry cleaning equipment and sewer lateral (i.e., source area). Specifically, PCE, TCE, and cDCE were detected at this location at concentrations of 22 ppb, 16 ppb, and 15 ppb, respectively, compared to the SCG of 5 ppb. The CVOCs cDCE and VC were detected below SCGs in existing monitoring well MW-6, located downgradient of the BCP Site and existing monitoring well MW-5. No CVOCs were detected at off-site SC monitoring wells MW-02 and MW-14, located further downgradient of the BCP Site. These results indicate that the BCP Site VOC contamination does not significantly extend off-site.

Low levels (<1 ppb) of 1,4-dioxane were detected during the off-site SC. No other SVOCs were detected. Similarly, there were no detections of PCBs or pesticides during the off-site SC sampling event. This indicates the BCP Site is not a source of SVOCs, PCBs, or pesticide contamination.

Several metals were detected above SCGs in the off-site wells. Chromium, which was detected below the SCG of 50 ppb at upgradient monitoring well MW-16 and downgradient monitoring well MW-2, was detected at 104 ppb at MW-14, further downgradient. Lead, which was detected above the SCG of 25 ppb at upgradient monitoring well MW-16 (236 ppb, estimated), was not detected at downgradient monitoring well MW-2 and only slightly exceeded the SCG at downgradient monitoring well MW-14 (25.2 ppb, estimated biased high). Mercury was detected slightly above the SCG of 0.7 ppb at upgradient monitoring well MW-16 (0.72 ppb) but was not detected at downgradient monitoring wells MW-2 or MW-14. Selenium was detected above the SCG (10 ppb) at monitoring well MW-2 (28.8 ppb, estimated biased high) but was not detected at monitoring wells MW-14 or MW-16. The low-level metals detections at monitoring well MW-16 may be attributed to the elevated turbidity of the groundwater during sample collection. Several commonly occurring metals were detected above SCGs likely reflective of background conditions and/or the off-site study area's urban setting, and do not appear to be BCP Site-derived. These include iron, magnesium, manganese and sodium. Overall, the results indicate that the BCP Site is not a source of metals contamination.

Off-site groundwater samples were also analyzed for PFAS, including PFOA and PFOS. Since no groundwater standard currently exists for PFAS, the sampling results were compared to the USEPA lifetime health advisory limit of 70 parts per trillion (ppt) for PFOA and PFOS (individually or combined). PFOS was detected above the SCG in upgradient monitoring well MW-16 and the blind duplicate sample (160 ppt and 200 ppt, respectively). PFOS was also detected in downgradient monitoring wells MW-2 and MW-14, but below the USEPA lifetime health advisory limit of 70 ppt. PFOA was detected in upgradient monitoring well MW-16 and downgradient monitoring wells MW-2 and MW-14, but all the detections were below the USEPA lifetime health advisory limit of 70 ppt. The distribution of PFAS results indicates that the BCP Site is not a source of PFAS and suggests an upgradient source may exist. This is further evidenced by the perfluorohexanesulfonic acid results, with upgradient concentrations of 1,500 ppt (estimated biased high) at monitoring well MW-16 versus downgradient concentrations of 55 ppt (estimated biased high) at monitoring well MW-2 and 6.7 ppt (estimated biased high) at monitoring well MW-14.

### 5.3. SOIL VAPOR

During implementation of the off-site SC, soil vapor samples were collected from the three new soil vapor points, SV-02, SV-12, and SV-14, that were co-located with monitoring wells MW-02, MW-12, and MW-14. One soil vapor sample was collected from SV-12 located south of Partition Street in the right-of-way. Two soil vapor samples were collected downgradient of the BCP Site (SV-02 and SV-14). Soil vapor samples were collected in 6-liter batch-certified SUMMA® canisters with a 2-hour integrated sample period from the newly installed soil vapor points on January 3, 2019. The following discussion focuses on the soil vapor analytical results collected during the off-site SC within the off-site study area. Historical soil vapor sample data collected during the completion of the RI at the BCP Site and Phase II ESA are documented in separate reports and are not specifically



addressed except in comparison to off-site SC data. The off-site SC soil vapor data collected at the three soil vapor points are presented on **Table 5-4**.

### 5.3.1. Soil Vapor Characterization Summary

As discussed above, the off-site SC soil vapor samples (see **Figure 3-1**) are supplemented with the historic soil vapor sample data collected at the BCP Site and during the Phase II ESA. As shown on **Table 5-4**, BCP Site-related CVOCs were detected in soil vapor samples collected at all three new off-site locations. PCE was detected at a concentration of 5.3  $\mu\text{g}/\text{m}^3$  at soil vapor sampling location SV-12 located across Partition Street to the south of the BCP Site CVOC source area. PCE, TCE, and cDCE were detected at location SV-02, downgradient of the BCP Site, at a concentration of 21  $\mu\text{g}/\text{m}^3$ , 1.7  $\mu\text{g}/\text{m}^3$ , and 0.30  $\mu\text{g}/\text{m}^3$  (estimated), respectively. These recent SV-02 results are similar (the same order of magnitude) to historical sampling results, which exhibited concentrations of PCE and TCE at 11  $\mu\text{g}/\text{m}^3$  and 1.3  $\mu\text{g}/\text{m}^3$  (respectively) and no detection of cDCE, in the vicinity of SV-02 (ARCADIS, 2013). Further downgradient of SV-02 and the BCP Site, PCE was detected at a concentration of 16  $\mu\text{g}/\text{m}^3$  at sampling location SV-14.

In general, concentrations of BCP Site-related COCs in soil vapor decline outward and in both the upgradient and downgradient direction from the BCP Site. Historical soil vapor sampling PCE results collected from SV-01 located beneath the building in the source area and SV-4 and SV-5 located adjacent to the source area are two or three orders of magnitude higher, 5,100  $\mu\text{g}/\text{m}^3$ , 730  $\mu\text{g}/\text{m}^3$ , and 1,900  $\mu\text{g}/\text{m}^3$ , respectively, than the historical PCE soil vapor results for SV-1 (12  $\mu\text{g}/\text{m}^3$ ) located upgradient of the source area and the recent results collected from location SV-12, and locations SV-02 and SV-14, downgradient of the BCP Site. (ARCADIS, 2013, Aztech, 2017).

## 5.4. SUB-SLAB SOIL VAPOR AND INDOOR AIR

As part of the off-site SC, three sub-slab vapor samples, three indoor air samples, and one ambient air sample were collected at 810 Broadway. Analytical results are provided on **Table 5-5**. This table identifies the VOCs that are part of the NYSDOH Soil Vapor/Indoor Air Matrices A, B, and C that are a May 2017 update to their *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2017) and corresponding actions to be taken based on the concentrations of these VOCs in sub-slab vapor and indoor air. The following discussion focuses on the seven VOCs that are part of the NYSDOH decision matrix, namely 1,1,1-trichloroethane (1,1,1-TCA), PCE, TCE, carbon tetrachloride (CT), VC, 1,1-dichloroethene (1,1-DCE), and cDCE.

### 5.4.1. Sub-Slab Soil Vapor and Indoor Air Characterization Summary

Two sampling events were performed at 810 Broadway, located north of the BCP Site at 800 Broadway. The first sampling event was performed on March 11 and 12, 2019, and consisted of sample collection at one sub-slab vapor sample location located in the basement of the structure, three indoor air sample locations located in the sub-basement, basement, and first floor of the structure, and one ambient air sample. The second sampling event was performed from April 9 to 11, 2019, and consisted of sample collection at two additional sub-slab vapor sampling locations, both of which were located in the sub-basement of the structure. The two additional sub-slab vapor sampling locations were collected at the request of NYSDEC based on the detected concentrations from the indoor air sample collected in the sub-basement during the first event.

The analytical results on **Table 5-5** for PCE and TCE in the indoor air sample collected in the sub-basement, (810B\_IA\_03) require action, including identifying the source or mitigating the TCE and PCE, according to the NYSDOH Soil Vapor/Indoor Air Matrix A and Matrix B. Based on the detected concentration of PCE and TCE in the samples, NYSDEC will perform mitigation measures to eliminate the risk of human exposure. As discussed in the Final Engineering Report (Aztech, 2017), prepared for the BCP Site, a sub-slab depressurization system (SSDS) was installed at the BCP Site at 800 Broadway to address potential vapors entering the BCP Site building based on the sub-slab vapor and indoor air sample results collected during the Phase II ESA and RI at sampling locations near and adjacent to the groundwater VOC plume. An interim remedial measure (IRM) to mitigate soil vapor intrusion in the sub-basement at 810 Broadway is currently underway.

## 6. FATE AND TRANSPORT OF CONTAMINANTS OF CONCERN

The off-site SC documented the presence of COCs that exceed regulatory criteria. These COCs occur in off-site groundwater, surface and subsurface soil, and indoor air. The fate and transport of these COCs are discussed in this section.

### 6.1. COCS

The following is a list of the principal BCP Site-related COCs that were detected above regulatory criteria during the off-site SC and the media with which they are associated:

#### VOCS

- PCE and TCE: indoor air.

PCE and its related degradation products TCE, cDCE, and VC are considered the principal BCP Site-related COCs. The SVOCs, pesticides, metals, and PFOS and PFAS detected in surface soil, subsurface soil, and/or groundwater are not considered to be BCP Site-related and are therefore not included in the following fate and transport discussion or the Conceptual Site Model (CSM) discussion.

The fate and transport of the principal BCP Site-related COCs will be discussed for groundwater as these influence the fate and transport of COCs in soil vapor. The principal BCP Site-related COCs in groundwater are included in the discussion in **Section 7** in the CSM.

### 6.2. FATE AND TRANSPORT OF COCS IN GROUNDWATER

Dissolved COCs in groundwater will migrate downgradient with groundwater flow. As such the area of highest VOC concentrations in groundwater will also migrate downgradient through time unless there is a continuing source of VOCs.

There are no current activities at the BCP Site that could act as a continuing source of COCs to the groundwater. In addition, no remnant tanks or other sources have been identified at the BCP Site. Dense non-aqueous phase liquid (DNAPL) can act as a residual source of groundwater impact. However, DNAPL was not observed during the installation of soil borings or the DS profiling investigation, and has not been documented in monitoring wells.

Based on information collected during the off-site SC, the groundwater flow direction is generally to the north-northwest across the BCP Site and off-site study area under an average hydraulic gradient of 0.086 ft/ft. Groundwater with dissolved PCE will migrate downgradient at the velocity of the groundwater unless attenuation processes act to retard the PCE migration or decrease concentrations. The groundwater seepage velocity can be calculated using the following formula:

$$V = ki/n_e$$

where  $k$  is the hydraulic conductivity,  $i$  is the hydraulic gradient, and  $n_e$  is the effective porosity. Using a hydraulic conductivity in the shallow groundwater of 0.14 feet per day (ft/day) (Hanson Van Vleet, 2016)<sup>2</sup>, an average hydraulic gradient of 0.086 ft/ft, and an effective porosity of 50% (Heath, 1983) yields a seepage velocity of 0.02 ft/day. As indicated previously, dry-cleaning operations began in 1958 (61 years to present) and ceased in 1978 (41 years to present). Applying the groundwater seepage velocity to these timeframes, assuming no retardation and a homogenous soil media, suggests that plume lengths of approximately 450 feet over 61

<sup>2</sup> Converting the geometric mean hydraulic conductivity of 1.01 gallon/day/feet<sup>2</sup> for MW-05 (Hanson Van Vleet, 2016) based on a conversion factor of 1 gallon/day/feet<sup>2</sup> equals 0.134 feet/day (Fetter, 2001) yields a hydraulic conductivity of 0.14 feet/day.

years and 300 feet over 41 years could be expected to emanate from the BCP Site source area. The closest downgradient monitoring well is existing monitoring well MW-6, where the COCs cDCE and VC were detected below SCGs. Existing monitoring well MW-2 and new monitoring well MW-14, located further downgradient from the BCP Site, are not impacted by the historical dry-cleaning operations at 800 Broadway at the BCP Site. This suggests that other factors are controlling contaminant migration.

PCE transport can be affected by multiple attenuation processes that will govern the rate of transport and downgradient concentrations. Processes that can limit the downgradient migration and concentration of PCE in groundwater include diffusion, dispersion, volatilization, sorption, and biologic and abiotic degradation. Some degree of diffusion, dispersion, and sorption is likely occurring, as is the case in most groundwater systems. Also, some degree of degradation of PCE is occurring through abiotic and/or biotic processes.

Volatilization is occurring as evidenced by the presence of BCP Site-related COCs in soil vapor and SVI samples. Volatilization is a process that will remove PCE from the groundwater surface into soil vapor. The transport and fate of COCs in soil vapor is discussed in **Section 6.3**. Sorption will retard the migration of COCs in groundwater. The retardation factor caused by sorption can be estimated by the following equation:  $R = (1 + (Pb/m) * Kd)$

Where: R = retardation factor

Pb = dry bulk density (g/cm<sup>3</sup>);

m = volumetric moisture content;

Kd = distribution coefficient (Koc \* Foc);

Koc = organic carbon partitioning coefficient; and,

Foc = organic carbon content (%).

The organic carbon content of silt and clay is estimated at approximately 1% or 0.01. If the organic carbon content of the matrix increases, the retardation coefficient increases. Using a typical bulk dry density (1.7 kg/l), a typical moisture content (0.2) and a Koc value for PCE of 155, the estimated PCE retardation factor could be 14.2. This suggests that the migration rate of PCE in groundwater could be almost 14 times slower than the groundwater flow.

### 6.3. FATE AND TRANSPORT OF COCS IN SOIL VAPOR

The COCs (PCE, cDCE, TCE, and VC) can partition into air-filled soil pores from soil and groundwater. Henry's Law suggests that BCP Site-related COCs are relatively volatile and therefore can be expected to volatilize into and migrate with soil vapors. Soil vapor migration is primarily driven by vapor pressure gradients (advection) in the soil and by gaseous diffusion. Pressure gradients can develop due to natural processes, such as changes in barometric pressure, and anthropogenic processes such as negative pressure in a building due to the heating system. In either condition, the soil vapors will migrate from a zone of higher pressure to a zone of lower pressure, which can include more permeable soil. Soil vapor also migrates as a result of the concentration gradient from areas with higher concentrations to areas of lower concentrations. This can result in upward, lateral, and downward migration through the vadose zone. Where soil vapors are under a low permeable surface, such as a building slab or pavement, the vapors typically migrate laterally to the edge of the low permeable surface and then discharge to the atmosphere. Low pressure gradients can exist under buildings resulting in stagnant or very slow vapor transport. If there are cracks or other permeable features in or under a building slab, then the vapors may migrate through the cracks and discharge to the building interior.

Processes such as sorption, degradation, diffusion, and dispersion, and partitioning into soil water can affect the transport and fate of COCs in soil vapor. Sorption to soil matrix can retard the migration of COCs in a similar manner as sorption processes associated with groundwater. The naturally occurring carbon content of the soils will affect the degree of sorption. Abiotic and biological processes can act to degrade COCs in the subsurface.

Dispersion processes can act to reduce COCs concentrations in soil vapors and COCs concentrations when soil vapors discharge to a building or atmosphere.

The SVI analytical results and historical data (**Section 5**) indicates that there is a current pathway for sub-slab soil vapors to migrate into indoor air at the off-site study area, specifically 810 Broadway. Based on previous sampling data obtained at the building located east of 800 Broadway along Partition Street (1 Partition Street), SVI is not occurring at the 1 Partition Street structure (Hanson Van Vleet, 2016).

## 7. CONCEPTUAL SITE MODEL

This section presents the CSM developed for the off-site study area based on data collected during this off-site SC and historical data. The off-site study area is approximately 1 acre in size and surrounds the BCP Site located at 800 Broadway in the City of Rensselaer, County of Rensselaer, New York (**Figure 1-2**). The BCP Site is bound by Broadway to the west and Partition Street to the south. Mixed-use zoned properties, including residences, bound the property to the east and north, respectively. The adjoining vacant structure to the north of the BCP Site is being redeveloped into an apartment building. A railyard is located across Broadway and Partition Street from the BCP Site to the west and south, respectively, and a convenience/retail petroleum store is located across Partition Street to the southeast. The area of focus for the off-site SC included site investigation activities surrounding, but not including, the BCP Site.

A dry-cleaning facility operated at the BCP Site from approximately 1958 to 1978. The BCP Site is currently occupied by a single building that was recently redeveloped into a liquor store. The off-site study area is mostly level, with a slight downward slope to the north-northwest, and a gravel/unpaved parking lot on the northern end. The off-site study area also has a slight upward slope to the west along Broadway prior to sloping downward again towards the railyard across Broadway and Partition Street to the west and south, respectively.

The off-site study area includes the area extending to the south and bound by Partition Street. The focus of the off-site SC is upgradient, adjacent, and downgradient of the identified CVOC groundwater plume emanating from the BCP Site.

### 7.1. OFF-SITE STUDY AREA GEOLOGY OVERVIEW

Soils encountered were generally composed of a fill sequence, where encountered, approximately 9 to 12 feet in thickness. The fill sequence consisted of coarse-to-fine sand with varying amounts of gravel, silt, and clay overlying clayey-silt and silt with smaller amounts of sand and gravel. The base of the fill sequence occasionally consisted of a humic layer with roots and organic material separating the non-native fill from native material below. The non-native fill soils were underlain with silt, silty-clay, and clayey-silt material, with occasional fine-medium sand lenses. Bedrock was not encountered during the investigation.

### 7.2. OFF-SITE STUDY AREA HYDROGEOLOGY

The overburden water table generally occurs at the base of the fill sequence or slightly below the fill sequence within a silt, silty-clay, and clayey-silt unit. The overburden water table is located approximately at the base of the fill sequence at MW-6, MW-7, and MW-14. The overburden water table is located slightly below the fill sequence within a silt, silty-clay, and clayey-silt unit at MW-2, MW-5, and MW-12. The overburden water table at MW-16 is higher, approximately three ft bg, possibly due to the absence of the non-native fill material in this area. Overburden stratigraphy, data collected during the DS profiling investigation, and the limited data gathered during hydraulic conductivity testing at existing monitoring well MW-5 during the RI conducted at the BCP Site (Hanson Van Vleet, 2016) indicate that limited lateral and vertical transmissivity exists within the fine-grained silt, silty-clay, and clayey-silt unit. Lateral and vertical transmissivity is likely controlled by the presence of occasional thin fine-medium sand lenses.

### 7.3. PRESENCE OF SOURCE AND CONTAMINANT MIGRATION

DS profiling, surface soil sampling, DPT soil borings, overburden monitoring well installation, groundwater sampling, soil vapor sampling, and SVI sampling were completed to characterize the nature and extent of

impacts of BCP Site-related COCs. The BCP Site-related COCs are associated with the historic dry-cleaning usage and include PCE and associated degradation products TCE, cDCE, and VC.

Based on previous investigations, the residual VOC source area at the BCP Site exists below the building and in the vicinity of the sewer line connecting from the building to the sewer on Partition Street (Hanson Van Vleet, 2016). The analytical data from previous investigations suggest that the source is relatively small and localized (ARCADIS, 2013, Hanson Van Vleet, 2016, Aztech, 2017).

COCs likely entered the subsurface at the BCP Site beneath the building at 800 Broadway and percolated through the unsaturated soils to the water table. COCs also traveled laterally along the city right-of-way west along Partition Street due to breaks in waste lines prior to entering the water table by percolating through the vadose zone. Once in the water table, COCs migrated laterally in the direction of groundwater flow, north-northwest. Lateral migration was slowed due to processes such as diffusion, dispersion, volatilization, sorption, and biologic and abiotic degradation, and due to the low permeability sediments in which the overburden water table primarily resides. Vertical migration was also limited due to the stratified, fine-grained nature of the overburden material underlying the non-native fill.

Based on previous investigations, COCs in groundwater are highest beneath the BCP Site building and immediately south along Partition Street. The highest concentration of PCE was 200 µg/L at monitoring well MW-9 (now decommissioned) (Hanson Van Vleet, 2016). A “rule of thumb” provided by the USEPA suggests that a DNAPL is present when chlorinated VOCs in groundwater are detected at concentrations greater than 1% of the aqueous solubility of the chlorinated compound (USEPA, 1998). A DNAPL would act as a continuing contaminant source to groundwater and soil vapor. The aqueous solubility of PCE is 200,000 µg/L (Pankow and Cherry, 1996). One percent of this solubility is 2,000 µg/L. The concentration of PCE at decommissioned monitoring well MW-9 (200 µg/L) was well below 1% of the aqueous solubility of PCE, suggesting that DNAPL is not present beneath the BCP Site. However, the COCs are highly volatile and moderately to highly soluble in water. As the constituents migrate to groundwater they act as a continuing source in the dissolved phase. Dissolved phase constituents will tend to migrate with groundwater to locations downgradient of the source area. Based on previous investigations, groundwater flows to the north-northwest across the BCP Site. The groundwater concentrations of PCE and its degradation products were greatest near the source area and decrease with distance from the source area downgradient, where they were detected slightly below SCGs at existing monitoring well MW-6. The investigation activities performed as part of the off-site SC identified no BCP Site-related COCs in groundwater downgradient from MW-6 and confirmed that the overall extent of the plume has not expanded since the 2016 RI performed for the BCP Site.

The dissolved phase constituents in groundwater at the BCP Site act as a continuing source to soil vapor. The remedial activities performed as part of the off-site SC confirmed COCs in soil vapor beneath the 810 Broadway structure adjacent to the BCP Site at levels warranting mitigation. Low level COCs detected in soil vapor samples further downgradient indicate that the lateral extent of soil vapor impacts are limited.

Based on the remedial activities performed during the off-site SC, BCP Site-related COCs were not detected in soil. Therefore, soil is not considered a source of COCs in soil vapor. However, soil samples collected during the RI at the BCP Site suggest that the soil below the BCP Site may contribute COCs to soil vapor and/or indoor air. The Tim Bayly Property was equipped with an SSDS under the remedial program.

## 8. QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT SUMMARY

A Qualitative Human Health Exposure Assessment (QHHEA), completed as part of the off-site SC, is presented in this section. The QHHEA has been conducted in accordance with New York Environmental Conservation Law (ECL) §27-1415(2)(b) and Section 3.3(c)(4) and 3B of DER-10. As presented in DER-10, the purpose of the QHHEA is to evaluate and document the potential exposure routes and pathways, and to identify and characterize the potentially exposed populations currently and under reasonably anticipated future use of the off-site study area. This QHHEA is apportioned into the following sub-sections:

- 8.1. Human Health COCs;
- 8.2. Potential BCP Site-Related Human Health COCs Migration Pathways;
- 8.3. Potentially Exposed Receptors and Exposure Pathways; and
- 8.4. QHHEA Summary.

### 8.1. HUMAN HEALTH CONSTITUENTS OF CONCERN

The area in the vicinity of the BCP Site and the off-site study area has been the subject of ongoing investigation and data collection efforts since 2013, as presented in **Section 1** and **Section 2**. Consequently, analytical data for multiple media and constituents are available. Media for which quantitative data are available include soil (both surface and subsurface), groundwater, soil vapor, indoor and ambient air, and sump water. Several remedial actions were implemented to address elevated concentrations of constituents associated with historical operations at the BCP Site, as described in **Section 1.1.1**. Additional soil (both surface and subsurface), groundwater, soil vapor, and soil vapor intrusion characterization were conducted as part of this off-site SC to address data gaps for the purpose of identifying potentially impacted areas at the off-site study area (i.e., beyond the extent of the Tim Bayly Property [BCP Site]).

The soil, groundwater, soil vapor, and soil vapor intrusion data collected at the off-site study area as part of this off-site SC have been evaluated against relevant criteria as presented in **Section 5**, including:

- NYCRR Part 375 Soil Cleanup Objectives;
- Technical and Operational Guidance Series: Class GA Standards and Guidance Values; and
- Soil Vapor/Indoor Air Matrices.

Detected constituents in each media are designated as COCs for the QHHEA if they exceed screening criteria that correspond with current and probable future land use. Zoning in the area of the off-site study area is designated MU-1 Downtown Mixed-Use which allows for residential and commercial use. Environmental media assessed as part of the off-site SC for potential impacts from historical BCP Site operations and practices and potential human exposure include surface and subsurface soil, groundwater, and soil vapor. Additional details regarding the human health COCs identified in these media are presented below.

#### 8.1.1. Soil

Soils evaluated for this QHHEA are segregated according to depth interval and include surface soil and subsurface soil. Based on the current and probable multi-family residential use at the off-site study area, Restricted Use-Restricted-Residential SCOs (Part 375-6.8[a]) were selected to identify human health COCs in soil and to evaluate the potential for human exposures to these soil COCs. **Table 5-1** and **Table 5-2** present the comparison of constituents in soil to the Restricted Use Restricted-Residential SCOs among other SCOs.

#### Surface Soil

For the purposes of the QHHEA, surface soil is defined as soil collected from a depth of up to 0.5-ft bg below the vegetative layer, loose cover (i.e., gravel parking), or surface if unvegetated. Surface soil represents the environmental media likely to be encountered by individuals engaged in activities that result in only modest soil disturbance and not in activities resulting in purposeful excavation or subsurface work activities. Although Unrestricted Use SCOs (Part 375-6.8[a]), Restricted-Residential Use SCOs (Part 375-6.8[a]), Residential Use SCOs (Part 375-6.8[a]), Restricted Use-Commercial SCOs (Part 375-6.8[a]), Restricted Use-Industrial SCOs (Part 375-6.8[a]), and Restricted Use-Protection of Groundwater SCOs (Part 375-6.8[a]), and NYSDEC CP-51 SCOs for Residential Use and NYSDEC CP-51 Protection of Groundwater SCOs were applied as a conservative measure in the discussion of the nature and extent of contaminant impacts at the off-site study area (**Section 5.1.1. and Section 5.1.2.**), this QHHEA utilizes the Restricted Use-Restricted Residential SCOs given that the probable future use at the off-site study area is multi-family residential housing and currently the off-site study area could be visited by trespassers, a receptor group that potentially includes off-site residents.

The following constituents were detected in off-site SC surface soil samples above Restricted Use-Restricted Residential SCOs:

Constituent	# Exceedances / # Samples	Maximum Concentration mg/kg	Location of Maximum Concentration
Lead	1/4	570 J	SS-03 (0-0.5')
Mercury	1/4	0.97 T	SS-03 (0-0.5')
Benzo[a]anthracene	2/4	4.4 J	SS-03 (0-0.5')
Benzo[a]pyrene	2/4	4.2 J	SS-03 (0-0.5')
Benzo[b]fluoranthene	2/4	5	SS-03 (0-0.5')
Chrysene	1/4	4.6 J	SS-03 (0-0.5')
Indeno[1,2,3-cd]pyrene	2/4	2.3	SS-03 (0-0.5')

“J” designates analyte detected at an estimated concentration.

“T” designates MS and/or MSD recovery is outside acceptance limits.

### Subsurface Soil

Subsurface soil samples have been collected from multiple depth intervals throughout the off-site study area. For the purposes of this QHHEA, subsurface soil is defined as soil between 0.5 and 13 ft bg which was selected as a reasonable depth at which receptors could potentially be exposed based on typical activities. Subsurface soil within this interval can be encountered by human receptors during excavation and other subsurface work activities. Although subsurface soil samples were also collected during the off-site SC from between 20.9 to 36.0 ft bg, it is unlikely that human exposures to soils at this depth could occur during construction and/or utility line work. Consequently, all subsurface soil samples collected from 0.5-13 ft bg were evaluated for potential human health COCs. **Table 5-2** presents the comparison of constituent concentrations in subsurface soil to the Restricted Use-Restricted Residential SCOs among other SCOs.

The following constituents were detected in subsurface soil off-site SC samples above Restricted Use-Restricted Residential SCOs:

Constituent	# Exceedances / # Samples	Maximum Concentration mg/kg	Location of Maximum Concentration
Lead	1/10	1,320	SB-MW-15 (9-10')
Mercury	1/10	1.3	SB-MW-15 (9-10')

Of the human health COCs identified for surface and subsurface soils, PCE and its related degradation products TCE, cDCE, and VC are considered the principal BCP Site-related COCs and were not detected in surface soil. One detection occurred in subsurface soils, but the detection was well below all applicable SCOs. Therefore, the SVOC, lead, and mercury detections in the surface soil and the lead and mercury detections in the subsurface soil will not be the focus of the remaining sections in this QHHEA.

### 8.1.2. Groundwater

The overburden water table generally occurs at the base of the fill sequence or slightly below the fill sequence within a silt, silty-clay, and clayey-silt unit. The overburden water table at MW-16 is higher, approximately three ft bg, likely due to the absence of the non-native fill material in this area. Groundwater collected during the sampling event that occurred on January 9 and 10, 2019 was analyzed for VOCs, SVOCs, 1,4-dioxane, PCBs,

pesticides, metals, mercury, cyanide, and PFAS (expanded list of 21 analytes). No surface water is present at the off-site study area and groundwater occurs at depths that preclude direct contact exposure for human receptors (including subsurface workers) with the exception of the area surrounding monitoring well MW-16 where overburden groundwater is approximately three ft bg. Additionally, groundwater beneath the off-site study area is not used as a drinking water supply. The drinking water supply for the city of Rensselaer is the Tomhannock Reservoir.

As indicated in **Table 5-3**, nine metals (chromium, iron, lead, magnesium, manganese, mercury, nickel, selenium, and sodium) exceeded Class GA Standards and Guidance Values (SGVs) in off-site monitoring wells during the groundwater sampling event. In addition to the nine metals that exceeded Class GA SGVs, PFOS also exceeded the USEPA drinking water health advisory in one sample and the corresponding blind duplicate sample. The Class GA SGVs and USEPA drinking water health advisory exceedances are summarized below:

Constituent	# Exceedances / # Samples	Maximum Concentration µg/L	Location of Maximum Concentration
Chromium	1/5	104	MW-14 (01/10/19)
Iron	3/5	36,000	MW-16 (01/09/19)
Lead	3/5	236 J	MW-16 (01/09/19)
Magnesium	4/5	258,000 J	MW-02 (01/09/19)
Manganese	3/5	664	MW-16 (01/09/19)
Mercury	1/5	0.72	MW-16 (01/09/19)
Nickel	1/5	174 JH	MW-14 (01/10/19)
Selenium	1/5	28.8 JH	MW-02 (01/09/19)
Sodium	4/5	735,000	MW-14 (01/10/19)
Perfluoro-octanesulfonate (PFOS)	2/5	200	MW-16 (01/09/19)

“J” designates analyte detected at an estimated concentration.

“JH” designates analyte detected concentration is biased high.

Of the human health COCs identified for groundwater, PCE and its related degradation products TCE, cDCE, and VC are considered the principal BCP Site-related COCs and were not detected. Therefore, the chromium, iron, lead, magnesium, manganese, mercury, nickel, selenium, sodium, and PFOS detections in groundwater will not be the focus of the remaining sections in this QHHEA.

### 8.1.3. Air

Due to the presence of VOCs in soils and groundwater underlying the BCP Site, and the detections of principal BCP Site-related COCs in soil vapor and SVI samples, an evaluation of the potential for soil vapor contamination and vapor intrusion was completed. It is noted that historic soil vapor, sub-slab, and indoor air data (ARCADIS, 2013, Hanson Van Vleet, 2016) were collected during the Phase II ESA and RI completed at the BCP Site, respectively. However, the following discussion focuses on the soil vapor, sub-slab, and indoor air analytical results collected during the off-site SC. Characterization of these media are described in the following sections.

#### Soil Vapor

BCP Site-related COCs (PCE, TCE, and cDCE) were detected in soil vapor within the off-site study area at maximum concentrations of 21 µg/m<sup>3</sup>, 1.7 µg/m<sup>3</sup>, and an estimated concentration of 0.30 µg/m<sup>3</sup>, respectively.



The data indicate similar concentrations and/or declining concentrations with increasing distance from the BCP Site.

### Sub-Slab Soil Vapor and Indoor Air

As part of the off-site SC, three sub-slab vapor samples and three indoor air samples were collected at 810 Broadway. NYSDOH has developed guidelines specifically for PCE, TCE, cDCE, VC, 1,1-DCE, CT, 1,1,1-TCA, and methylene chloride in indoor air to help guide decisions about the nature of efforts to reduce exposure to these chemicals. Comparison of the sub-slab and indoor air concentrations to the NYSDOH decision matrices suggests mitigation is warranted for the sub-basement at 810 Broadway. An IRM to mitigate soil vapor intrusion in the sub-basement at 810 Broadway is currently underway.

Due to the presence of BCP Site-related COCs (PCE, TCE, and cDCE) detected within the off-site study area in soil vapor, sub-slab, and indoor air, the principal BCP Site-related COCs (PCE, TCE, cDCE, and VC) are the focus in the remaining QHHEA discussion below.

## 8.2. POTENTIAL BCP SITE-RELATED HUMAN HEALTH COCS MIGRATION PATHWAYS

As discussed in **Section 8.1.1.** and **Section 8.1.2.**, no principal BCP Site-related COCs were detected in surface soil and only one BCP Site-related COC, PCE, was detected in one subsurface soil sample, but was well below all applicable SCOs. Furthermore, no principal BCP Site-related COCs were detected in the groundwater samples collected during this off-site SC. As such, discussion of potential migration pathways for human health is limited to COCs in soil vapor and the associated soil vapor pathway is discussed below.

### 8.2.1. Soil Vapor

Volatile compounds in groundwater have the potential to migrate into the interstitial air spaces within soil. Where this occurs below buildings or structures, VOCs originating from groundwater could enter indoor air of an occupiable space and subsequently be inhaled. The potential for vapor intrusion to buildings is governed by a number of factors, including pressure differentials, COCs concentration, building properties, presence and width of cracks in a building's foundation, and vadose zone soil temperature.

Although BCP Site-related VOCs were either not detected or detected at low levels in soil vapor, the analytical results presented on **Table 5-5** for PCE and TCE in the indoor air sample collected in the sub-basement, (810B\_IA\_03), require action, including identifying the source or mitigating the TCE and PCE per the NYSDOH Soil Vapor/Indoor Air Matrix A and Matrix B. Based on the detected concentration of PCE and TCE in the sample, the recommended path forward to address potential issues with human exposure per the NYSDOH Soil Vapor/Indoor Air Matrix A and Matrix B is to perform mitigation measures to eliminate the risk of human exposure. BCP Site-related VOCs were not detected above Class GA SGVs in off-site SC groundwater samples, however, based on the indoor air results at 810 Broadway the vapor intrusion pathway is complete for this structure.

## 8.3. POTENTIALLY EXPOSED RECEPTORS AND EXPOSURE PATHWAYS

This section identifies the potential exposure pathways through which there may be exposure to BCP Site-related human health COCs. An exposure pathway analysis describes the transport of COCs from the affected media to the exposed receptor. An exposure pathway links the potential sources, exposure media, and receptor populations to identify potential pathways of human exposure.

As defined in DER-10 (NYSDEC, 2010), an exposure pathway has five elements:

- A source and mechanism of COCs release to the environment;
- An environmental transport medium (e.g., soil) for the COCs and/or mechanism of transfer from one media to another;
- A point of contact with the impacted environmental media (exposure point);

- An exposure route at the contact point (i.e., ingestion, inhalation, or dermal contact); and,
- A characterization of the receptor populations who may be exposed.

A pathway is considered to be complete if all five conditions listed above are satisfied for that pathway. If one or more of these conditions are not met, there is no physical means by which a receptor may be exposed to the COCs, and the pathway is considered incomplete.

Inhalation of vapors in the indoor air of the building at 810 Broadway is possible. Groundwater is not currently utilized as a potable water source and no known potable wells have been identified in the vicinity of the off-site study area. As discussed in **Section 8.1.1.** and **Section 8.1.2.**, surface soil, subsurface soil, and groundwater pathways are not considered a cause for concern due to the lack of BCP Site-related COCs.

Under current and hypothetical future land use scenarios, potential exposure pathways identified for this QHHEA include the following:

- Inhalation of indoor air or soil vapor containing vadose zone or overburden groundwater-derived VOC vapors.

The potential exposure pathways associated with current and reasonably anticipated future receptors are discussed in the following section.

### 8.3.1. Current and Future Receptors and Exposure Pathways

The current land use in the vicinity of the off-site study area is residential and commercial structures. A railyard is located across Broadway and Partition Street from the BCP Site to the west and south, respectively, and a convenience/retail petroleum store is located across Partition Street to the southeast. A gravel parking lot is located in the northern portion of the off-site study area. The residential structures, commercial structures, and restricted-access railyard limits potential human receptors reasonably anticipated to encounter impacted environmental media. Based on this QHHEA, current human exposures would likely be restricted to indoor air or soil vapor exposures to human health in residential and commercial structures near the BCP Site groundwater plume and authorized or unauthorized people entering the off-site study area. Other possible, although less likely, current human exposures exist for utility, maintenance, and construction workers that maintain and/or repair underground utilities near the BCP Site groundwater plume and in adjacent structures near the source area that may be exposed to indoor air or soil vapor. No principal BCP Site-related COCs are present in overburden groundwater, surface, and subsurface soil as shown in the analytical results from this off-site SC. Additionally, groundwater beneath the off-site study area is not used as a drinking water supply.

Reasonably anticipated future use of the off-site study area includes residential housing and commercial properties. The gravel parking lot located on the northern portion of the off-site study area may also be paved or developed which would require potential future shallow subsurface work activities. Future receptors therefore are represented by child and adult residents, trespassers, utility workers, maintenance workers, and construction workers that may be exposed to BCP Site-related COCs through inhalation of indoor air in structures or soil vapor during periodic inspection, servicing, and maintenance of utilities or construction activities.

Based upon the present-day and future characteristics of the off-site study area, the following receptor groups are considered in a current and future human exposure scenario:

- **Resident:** Residential receptors will be comprised of persons of both child and adult age groups and are expected to reside at the off-site study area over the majority of a given year and potentially for many years. Relevant exposure routes for this receptor include inhalation of groundwater-derived volatile COC vapors that have migrated into the indoor space of a residential building through cracks in the building foundation or walls.
- **Trespasser:** A trespasser is a person that gains access to the off-site study area without permission and may be of adolescent or adult age. As described above, exposures to BCP Site-related human health COCs are

limited to inhalation of indoor air containing VOC vapors. Trespassers are unlikely to dig to depths below the surface soil if they are restricted from residential and commercial structures. The parking lot in the northern portion of the off-site study area is also overlain with a gravel-based fill which inhibits soil disturbances. Incidental inhalation of indoor air is a possible exposure route for this receptor group entering commercial or residential structures without authorization, although unlikely given the short duration of time spent in the structures.

- **Utility worker:** Subsurface utilities at the off-site study area may require periodic inspection, servicing, and maintenance both currently and in the foreseeable future. The utility worker is presumed to be of adult age and may be exposed to BCP Site-related COCs in soil vapor through inhalation while engaging in shallow subsurface work activities. Utility lines typically do not extend below 12 ft bg. Therefore, this depth is considered the maximum depth for possible utility line worker exposures to soil vapor through inhalation. Incidental inhalation of soil vapor from BCP Site-related COCs emanating from the vadose zone is a possible exposure route for this receptor group.
- **Maintenance worker:** This adult-age receptor is anticipated to perform a variety of general service functions at the off-site study area in the residential and commercial structures, including general maintenance of utilities and off-site study area grounds. However, given the concentrations of BCP Site-related COCs in soil vapor and indoor air and the limited exposure time for maintenance work, the potential for exposure under current and probable future land use is eliminated or reduced.
- **Construction worker:** The construction worker is identified as a receptor for the QHHEA due to the potential for excavation or construction to occur at the off-site study area in the future. These workers are of adult age and may be exposed to subsurface soil during excavation and construction activities that contains soil vapor with BCP Site-related COCs. Incidental inhalation of volatile COCs are applicable exposure routes for this receptor. Twelve feet is a reasonable maximum depth at which construction workers are likely to be exposed based on the depths of typical construction excavations.

Facility contractors/subcontractors associated with the potential collection and handling of future environmental samples and with the potential management of environmental samples are not considered in this QHHEA. Contractor/subcontractor activities are typically covered under a specific HASP which provides for the use of personal protective equipment (PPE) and includes preventative procedures for eliminating exposure and maximizing personal safety. Therefore, off-site study area contractors/subcontractors are not considered a viable receptor population for the QHHEA.

A summary of the environmental media, exposure pathways, and potential human receptors relevant to the off-site study area QHHEA are presented below:

**Human Exposure Pathway Analysis**

Environmental Media and Exposure Pathway	Potential Receptors	Human Exposure Assessment
<p><b>Inhalation of BCP Site-related COCs in vapors in soil vapor and indoor air</b></p>	<ul style="list-style-type: none"> <li>■ Current/future resident</li> <li>■ Current/future trespasser</li> <li>■ Current/future maintenance worker</li> <li>■ Current/future utility worker</li> <li>■ Future construction worker</li> </ul>	<ul style="list-style-type: none"> <li>■ Current/future residents may be exposed to indoor air containing VOC vapors. Current/future trespassers and current/future maintenance workers may also be exposed, however exposure time will be significantly reduced given that these individuals are not permanent residents. Future activities at the off-site study area may include re-development of buildings and parking lots. These risks will be reduced or eliminated through mitigation.</li> <li>■ During underground utility line inspection, servicing, and maintenance activities, current/future utility workers could come into</li> </ul>

Environmental Media and Exposure Pathway	Potential Receptors	Human Exposure Assessment
		<p>contact with groundwater-derived vapors in soil vapor through inhalation.</p> <ul style="list-style-type: none"> <li>Future construction activities associated with re-development of the off-site study area to support residential housing are presumed to occur on the off-site study area, potentially exposing the construction worker to soil vapor derived from VOCs in groundwater through inhalation.</li> </ul>

**8.4. QHHEA SUMMARY**

The objective of this QHHEA was to evaluate potential human exposure to BCP Site-related human health COCs under current and reasonably anticipated future use scenarios. The off-site study area is approximately 1 acre in size and surrounds the BCP Site located at 800 Broadway. The BCP Site property is bound by Broadway to the west and Partition Street to the south. Mixed-use zoned properties, including residences, bound the property to the east and north, respectively. The adjoining vacant structure to the north of the BCP Site is being redeveloped into an apartment building. A railyard is located across Broadway and Partition Street from the BCP Site to the west and south, respectively, and a convenience/retail petroleum store is located across Partition Street to the southeast. The off-site study area is currently the subject of an off-site SC which has identified BCP Site-related human health VOC COCs in indoor air and soil vapor.

Residents, trespassers, maintenance workers, utility workers, and construction workers represent the current and future potential receptors for this QHHEA. Under current and future conditions, direct exposure to soil vapor and indoor air containing BCP Site-related VOC COCs is possible for these receptors. Residents may be exposed indirectly to volatile COCs in groundwater through the vapor intrusion pathway, given the available off-site SC soil vapor, sub-slab, and indoor air data, and prior soil vapor and SVI data generated during the RI. A properly designed vapor barrier or other vapor mitigation system could be installed to eliminate potential infiltration of VOCs to the interior space of a future residential or commercial building.

As discussed in **Section 5.4.1.** above, an SSDS was installed at the BCP Site at 800 Broadway to address potential vapors entering the building based on the sub-slab vapor and indoor air sample results collected during the Phase II ESA and RI at sampling locations near and adjacent to the groundwater VOC plume. An IRM to mitigate soil vapor intrusion in the sub-basement at 810 Broadway is currently underway. Previous SVI sampling performed at other off-site structures adjacent to the off-site study area indicates SVI is not occurring.

Newly constructed residential or commercial buildings at the off-site study area will be connected to an off-site water supply, consistent with adjacent community water users. Furthermore, no surface water bodies exist at the off-site study area. Exposure to groundwater or surface water under current and future use is not likely.

PCE and its related degradation products TCE, cDCE, and VC are considered the principal BCP Site-related COCs and were not detected in surface soil. One detection occurred in subsurface soils, but the detection was well below all applicable SCOs. BCP Site-related human health VOC COCs in BCP Site soil are located in the source area underneath the building at 800 Broadway or the city right-of-way along Partition Street. Exposure to soils containing BCP Site-related human health VOC COCs under current and future use is not likely.

**9. SUMMARY AND CONCLUSIONS**

The off-site SC for the Tim Bayly Property – Off-Site was conducted by OBG under contract with Parsons Engineering of New York. The off-site SC was conducted between October 2018 and April 2019 for the NYSDEC under Engineering WA #D007623-35.

Off-site SC activities were implemented in several phases at the off-site study area. Investigation activities included the evaluation of surface and subsurface soil, groundwater, soil vapor, and potential for SVI.

Review of the BCP Site data indicates that the BCP Site-related COCs, PCE and its degradation products (TCE, cDCE, and VC) are affecting groundwater, soil vapor, sub-slab, and indoor air at the BCP Site (800 Broadway) and soil vapor, sub-slab, and indoor air off-site at 810 Broadway. Previous investigations confirmed that the BCP Site is the source of COCs.

Based upon the investigations completed the following conclusions have been developed:

- Soils encountered were generally composed of a fill sequence, where encountered, approximately 9 to 12 feet in thickness. The fill sequence consisted of coarse-to-fine sand with varying amounts of gravel, silt, and clay overlying clayey-silt and silt with smaller amounts of sand and gravel. The base of the fill sequence occasionally consisted of a humic layer with roots and organic material separating the non-native fill from native material below. The non-native fill soils are underlain by silt, silty-clay, and clayey-silt material, with occasional fine-medium sand lenses. Concentrations of PCE and its degradation products, (TCE, cDCE, and VC), were not detected above applicable SCOs in surface and subsurface soil sampled during the off-site SC.
- The overburden water table was observed at depths ranging from 2.95 to 17.37 ft bg. In general, the water table was observed near the interface of the fill sequence, where encountered, and the underlying native silt, silty-clay, and clayey-silt unit (i.e., at depths of 9 ft bg or more). The overburden water table at upgradient MW-16 is higher, approximately three ft bg, likely due to the absence of the non-native fill material in this area. Groundwater flow in the overburden is to the north-northwest from 37.7 feet NAVD 88 at MW-16 to 26.8 feet NAVD 88 at MW-14.
- The principal contaminant transport pathway is as a dissolved constituent in groundwater. Lateral and vertical transmissivity is limited due to the low permeability sediments (silt, silty-clay, and clayey-silt) underlying the non-native fill. The BCP Site-related COCs groundwater plume originates from the BCP Site and extends in a north-northwest direction in the direction of groundwater flow. The plume geometry has not changed since the RI conducted at the BCP Site. BCP Site-related COCs concentrations are highest beneath the building at the BCP Site and adjacent to the BCP Site in the city right-of-way along Partition Street. BCP Site-related COCs concentrations decrease directly downgradient of the BCP Site, with consistent decreasing concentrations downgradient and decreasing concentrations laterally. Concentrations of PCE and its degradation products in groundwater were not detected at monitoring well locations that were sampled as part of this off-site SC.
- For purposes of evaluating potential exposures and remedial alternatives, the horizontal extent of 6 NYCRR Part 375 SCO exceedances in soil at the BCP Site and soil characterized as part of this investigation at the off-site study area have been substantially defined, as well as the horizontal and vertical extent of COCs in groundwater.
- The off-site SC SVI data indicates that there is a current pathway for sub-slab soil vapors to migrate into indoor air within the structure located at 810 Broadway. An IRM to mitigate soil vapor intrusion at this structure is currently underway.

The nature and extent of BCP Site-related COCs and their transport mechanisms are defined sufficiently to discuss preliminary remedial action objectives (RAOs) for the off-site study area (**Section 10**).

## 10. PRELIMINARY REMEDIAL ACTION OBJECTIVES

This section documents the development of preliminary RAOs identified as part of this off-site SC. Consistent with NYSDEC DER-10 (NYSDEC, 2010a) for the development of remedial alternatives and USEPA's *Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA* (USEPA, 1988), this section describes potential SCGs and identification of preliminary RAOs.

### 10.1. IDENTIFICATION OF POTENTIAL SCGs

There are three types of SCGs: chemical-specific, location-specific, and action-specific SCGs. Chemical-specific SCGs are health or risk-based numerical values or methodologies which, when applied to site-specific conditions, result in the establishment of numerical values. These values establish the acceptable amount or concentration of a chemical that may be found in, or discharged to, the ambient environment. Location-specific SCGs set restrictions on activities based on the characteristics of the facility or immediate environs. Action-specific SCGs set controls or restrictions on particular types of remedial actions once the remedial actions have been identified as part of a remedial alternative. For the development of the preliminary RAOs, potentially applicable chemical-specific SCGs have been identified for indoor and sub-slab vapor.

Potential chemical-specific SCGs include:

- NYSDOH updated guidance for indoor air impacted by soil vapors (NYSDOH, 2017), which presents actions based on concentrations of sub-slab vapor and indoor air concentrations.

As presented in **Section 5 and Section 6**, analytical results indicated exceedances of SCGs in surface and subsurface soil, overburden groundwater, and indoor air.

### 10.2. PRELIMINARY REMEDIAL ACTION OBJECTIVES

Preliminary RAOs are medium-specific goals for protecting human health and the environment. RAOs form the basis for the overall goals for facility remediation. The RAOs are considered during the identification of appropriate remedial technologies and development of alternatives for the off-site study area, and later during the evaluation of remedial alternatives. As documented in DER-10, NYSDEC has developed generic RAOs to be applied as default objectives where they are applicable to the specific site conditions. DER-10 also indicates that site-specific RAOs may be developed where the generic RAOs do not address unique site conditions.

Consistent with DER-10, this evaluation will consider:

- Applicable SCGs, considering the current, intended, and reasonably anticipated future use of the off-site study area and its surroundings;
- BCP Site-related contaminants exceeding applicable SCGs;
- Environmental media impacted by such contaminants;
- Extent of the impact to the environmental media;
- Actual or potential human exposures and/or environmental impacts resulting from the contaminants in environmental media; and,
- Site-specific cleanup levels, if developed.

NYSDEC's generic RAOs address the following media: soil, groundwater, and soil vapor/indoor air. Sediment and surface water are not present on the off-site study area; therefore, preliminary RAOs for these media are not identified. Documentation of the rationale employed in the development of the preliminary RAOs for the off-site study area is presented below.

### 10.2.1. Preliminary RAOs for Indoor Air and Sub-Slab Vapor

As presented in **Section 5**, indoor air COCs concentrations require action, including identifying the source or mitigating the TCE and PCE per the NYSDOH Soil Vapor/Indoor Air Matrix A and Matrix B. Accordingly, preliminary RAOs identified for indoor air and the off-site study area soil vapor are as follows:

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the off-site study area.

An IRM to mitigate soil vapor intrusion at this structure is currently underway and will be summarized under separate cover.

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## Tables

**Table 3-1  
Monitoring Well Construction Summary  
Tim Bayly Property - Off-Site  
Site No. C442043A  
Rensselaer, New York**

Well ID	Location		Ground Elevation (ft NAVD 88)	Top of Casing Elevation (ft NAVD 88)	Total Boring Depth (ft bgs)	Bottom Elevation (ft NAVD 88)	Screen Type	Well Diameter (inches)	Top of Screen (ft bgs)	Bottom of Screen (ft bgs)	Elevation Top of Screen (ft NAVD 88)	Elevation Bottom of Screen (ft NAVD 88)
	Northing	Easting										
MW-2	1390074.03	696745.81	38.3	38.04	18.0	20.3	0.010-in slot PVC	2.0	8.0	18.0	30.3	20.3
MW-5	1389939.94	696743.34	46.2	45.61	19.0	27.2	0.010-in slot PVC	2.0	8.0	18.0	38.2	28.2
MW-6	1390012.61	696689.75	45.0	44.79	20.0	25.0	0.010-in slot PVC	2.0	10.0	20.0	35.0	25.0
MW-7	1389951.77	696767.24	44.9	44.67	20.0	24.9	0.010-in slot PVC	2.0	10.0	20.0	34.9	24.9
MW-12	1389873.02	696729.08	45.4	45.19	14.0	31.4	0.010-in slot PVC	1.0	7.3	12.3	38.1	33.1
MW-14	1390096.98	696670.32	39.0	38.62	25.0	14.0	0.010-in slot PVC	2.0	11.6	21.6	27.4	17.4
MW-16	1390012.57	696825.43	40.8	40.61	20.0	20.8	0.010-in slot PVC	2.0	9.7	19.7	31.1	21.1

**Notes:**

1. "ft NAVD 88" designates elevation in feet referenced to North American Vertical Datum of 1988.
2. Horizontal coordinates (Northing and Easting) are referenced to NAD83 New York State East Coordinate System.
3. "ft bgs" designates feet below ground surface.
4. "PVC" designates polyvinyl chloride.
5. Surveying completed by Thew Associates PE-LS, PLLC. of Marcy, New York.
6. Boring depth and top and bottom of well screen information compiled from Phase II Environmental Site Assessment performed by ARCADIS, 2013, and Remedial Investigation Report prepared by Hanson Van Vleet, 2016.

**Table 3-2**  
**Groundwater Elevation Summary**  
**Tim Bayly Property - Off-Site**  
**Site No. C442043A**  
**Rensselaer, New York**

Well ID	Location		Top of Casing Elevation (ft NAVD 88)	January 9 - 10, 2019	
	Northing	Easting		Depth to Water (ft BTOC)	Groundwater Elevation (ft NAVD 88)
MW-2	1390074.03	696745.81	38.04	11.93	26.11
MW-5	1389939.94	696743.34	45.61	10.96	34.65
MW-6	1390012.61	696689.75	44.79	17.37	27.42
MW-7	1389951.77	696767.24	44.67	9.17	35.50
MW-12	1389873.02	696729.08	45.19	11.88	33.31
MW-14	1390096.98	696670.32	38.62	11.81	26.81
MW-16	1390012.57	696825.43	40.61	2.95	37.66

**Notes:**

1. "ft NAVD 88" designates elevation in feet referenced to North American Vertical Datum of 1988.
2. Horizontal coordinates (Northing and Easting) are referenced to NAD83 New York State East Coordinate System.
3. "ft btoc" designates feet below top of casing.
4. Surveying completed by Thew Associates PE-LS, PLLC. of Marcy, New York.
5. MW-12 depth to water measurement collected on December 10, 2018.

**Table 5-1  
Detected Constituents in Surface Soil  
October 2018**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID VOC Sample ID Non-VOC Sample ID Sample Depth Sample Date	NY CP-51 - Protection of GW <sup>1</sup>	NY CP-51 - Residential <sup>2</sup>	NY Part375- Commercial <sup>3</sup>	NY Part375- Industrial <sup>4</sup>	NY Part375- Protection of GW <sup>5</sup>	NY Part375- Residential <sup>6</sup>	NY Part375- Restricted Residential <sup>7</sup>	NY Part375- Unrestricted <sup>8</sup>	SS-01 SS-01-0.0-0.2-1000918 SS-01-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018	SS-02 SS-02-0.0-0.2-1000918 SS-02-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018	SS-02 X-2-100918 X-1-100918 0.0 - 0.5 ft BGS 10/9/2018	SS-03 SS-03-0.0-0.2-1000918 SS-03-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018
<b>Chemical Name</b>												
<b>VOCs</b>												
No Constituents Detected												
<b>SVOCs</b>												
2-Methylnaphthalene	36.4	0.41	NC	NC	NC	NC	NC	NC	ND	0.21 J	ND	0.68 J
Acenaphthene	NC	NC	500	1,000	98	100	100	20	ND	0.33 J	ND	1.3 T
Acenaphthylene	NC	NC	500	1,000	107	100	100	100	ND	ND	ND	0.21 J
Anthracene	NC	NC	500	1,000	1,000	100	100	100	ND	0.4 J	ND	1.8 J
Benzo[a]anthracene	NC	NC	5.6	11	1	1	1	1	0.28 J	1.4*	0.61 J	4.4 J*
Benzo[a]pyrene	NC	NC	1	1.1	22	1	1	1	0.27 J	1.3	0.6 J	4.2 J
Benzo[b]fluoranthene	NC	NC	5.6	11	1.7	1	1	1	0.42 J	1.7*	0.84 J	5*
Benzo[g,h,i]perylene	NC	NC	500	1,000	1,000	100	100	100	0.3 J	0.89 J	0.44 J	2.8
Benzo[k]fluoranthene	NC	NC	56	110	1.7	1	3.9	0.8	0.18 J	0.7 J	0.3 J	2.6 J*
Carbazole	NC	NC	NC	NC	NC	NC	NC	NC	ND	0.17 J	ND	0.83 J
Chrysene	NC	NC	56	110	1	1	3.9	1	0.32 J	1.5*	0.66 J	4.6 J*
Dibenzofuran	6.2	NC	350	1,000	210	14	59	7	ND	0.26 J	ND	0.52 J
Fluoranthene	NC	NC	500	1,000	1,000	100	100	100	0.59 J	3.1	1.2	9.6 J
Fluorene	NC	NC	500	1,000	386	100	100	30	ND	0.23 J	ND	0.98 J
Indeno[1,2,3-cd]pyrene	NC	NC	5.6	11	8.2	0.5	0.5	0.5	0.22 J	0.76 J	0.32 J	2.3
Naphthalene	NC	NC	500	1,000	12	100	100	12	ND	0.2 J	ND	1.3 J
Phenanthrene	NC	NC	500	1,000	1,000	100	100	100	0.13 J	2.4	0.56 J	7.2 JH
Pyrene	NC	NC	500	1,000	1,000	100	100	100	0.46 J	2.7	1.1	8.5
<b>PCBs</b>												
No Constituents Detected												
<b>Pesticides</b>												
4-4-DDE	NC	NC	62	120	17	1.8	8.9	0.0033	ND	ND	ND	0.02 J
4-4-DDT	NC	NC	47	94	136	1.7	7.9	0.0033	ND	ND	ND	0.021
<b>Inorganics</b>												
Aluminum	NC	NC	NC	NC	NC	NC	NC	NC	8,840 J	12,700 J	12,200 J	13,500 J
Antimony	NC	NC	NC	NC	NC	NC	NC	NC	0.47 J	0.86 J	0.52 J	1.2 J
Arsenic	NC	NC	16	16	16	16	16	13	5.0	6.7	6.3	12.8 J
Barium	NC	NC	400	10,000	820	350	400	350	57.7	102	101	196 J
Beryllium	NC	NC	590	2,700	47	14	72	7.2	0.51	0.69	0.64	0.82
Cadmium	NC	NC	9.3	60	7.5	2.5	4.3	2.5	0.10 J	0.40	0.37	0.79
Calcium	NC	NC	NC	NC	NC	NC	NC	NC	30,500 JH	5,070 JH	6,340 JH	18,600 JH
Chromium	NC	NC	NC	NC	NC	NC	NC	NC	13.7	30.8	18.1	24.8 J
Cobalt	NC	30	NC	NC	NC	NC	NC	NC	7.3	10.4	10.1	10.4
Copper	NC	NC	270	10,000	1,720	270	270	50	14.2	38.6	39.2	64.8
Iron	NC	2,000	NC	NC	NC	NC	NC	NC	16,000 JH	24,300 JH	22,600 JH	22,100 JH
Lead	NC	NC	1,000	3,900	450	400	400	63	9.2 J	168 J	156 J	570 J*
Magnesium	NC	NC	NC	NC	NC	NC	NC	NC	9,650 JH	5,050 JH	5,200 JH	4,740 JH
Manganese	NC	NC	10,000	10,000	2,000	2,000	2,000	1,600	371 JH	523 JH	558 JH	543 JH
Mercury	NC	NC	2.8	5.7	0.73	0.81	0.81	0.18	0.027	0.10	0.077	0.97 T*

**Table 5-1  
Detected Constituents in Surface Soil  
October 2018**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID VOC Sample ID Non-VOC Sample ID Sample Depth Sample Date	NY CP-51 - Protection of GW <sup>1</sup>	NY CP-51 - Residential <sup>2</sup>	NY Part375- Commercial <sup>3</sup>	NY Part375- Industrial <sup>4</sup>	NY Part375- Protection of GW <sup>5</sup>	NY Part375- Residential <sup>6</sup>	NY Part375- Restricted Residential <sup>7</sup>	NY Part375- Unrestricted <sup>8</sup>	SS-01 SS-01-0.0-0.2-1000918 SS-01-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018	SS-02 SS-02-0.0-0.2-1000918 SS-02-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018	SS-02 X-2-100918 X-1-100918 0.0 - 0.5 ft BGS 10/9/2018	SS-03 SS-03-0.0-0.2-1000918 SS-03-0.0-0.6-1000918 0.0 - 0.5 ft BGS 10/9/2018
Chemical Name												
Nickel	NC	NC	310	10,000	130	140	310	30	14.9	25.7	24.3	23.4
Potassium	NC	NC	NC	NC	NC	NC	NC	NC	2,060 J	2,640 J	2,650 J	3,110 JH
Selenium	NC	NC	1,500	6,800	4	36	180	4	ND	0.52 J	ND	1.1 J
Silver	NC	NC	1,500	6,800	8.3	36	180	2	ND	ND	ND	14.4*
Sodium	NC	NC	NC	NC	NC	NC	NC	NC	84.4 J	147 J	155 J	136 J
Vanadium	NC	100	NC	NC	NC	NC	NC	NC	18.8	25.4	24.7	31.3 J
Zinc	NC	NC	10,000	10,000	2,480	2,200	10,000	109	42.8 JH	166 JH	142 JH	287 J

Notes:

1. Volatile Organic Compounds (VOCs) quantitated using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C. Semi Volatile Organic Compound (SVOCs) quantitated using USEPA SW-846 Method 8270D. Polychlorinated Biphenyls (PCBs) quantitated using USEPA SW-846 Method 8082A. Pesticides quantitated using USEPA SW-846 Method 8081B. Metals quantitated using USEPA SW-846 method 6010C. Mercury quantitated using method 7471B. Cyanide quantitated using method USEPA SW-846 method 9012B.
2. Samples for analysis of VOCs collected from the 0 to 6-inch interval below vegetation (or surface if unvegetated). Samples for analysis of SVOCs, metals, pesticides, and PCBs collected from the 0 to 2-inch interval below vegetation (or surface if unvegetated).
2. All results in milligrams per kilogram (mg/kg).
3. All analyses performed by TestAmerica Inc. of Amherst, New York.
4. <sup>1</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
- <sup>2</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
- <sup>3</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
- <sup>4</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Industrial, December 14, 2006.
- <sup>5</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
- <sup>6</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Residential, December 14, 2006.
- <sup>7</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Restricted Residential, December 14, 2006.
- <sup>8</sup> 6 NYCRR Part 375, Table 375-6.8 (a): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, Unrestricted, December 14, 2006.

	Exceeds NYS CP-51 Residential SCOs
	Exceeds NYS Part 375 Commercial, Industrial, Residential, Restricted Residential, Unrestricted SCOs
	Exceeds NYS Part 375 GW Protection, Residential, Restricted Residential and Unrestricted SCOs
	Exceeds NYS Part 375 Residential, Restricted Residential and Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted, GW Protection SCOs
	Exceeds NYS Part 375 GW Protection, Residential and Unrestricted SCOs

\* - Exceeds NYS Part 375 GW Protection

5. Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
6. "NC" designates no criteria.
7. "ND" designates analyte not detected.
8. "NA" designates analyte was not analyzed for.
9. "J" designates analyte detected at an estimated concentration.
10. "JH" designates analyte detected at an estimated high concentration.
11. "T" designates MS and/or MSD recovery is outside acceptance limits.

**Table 5-2  
Detected Constituents in Subsurface Soil  
October 2018**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Depth Sample Date	NY CP-51 - Protection of GW <sup>1</sup>	NY CP-51 - Residential <sup>2</sup>	NY Part375- Commercial <sup>3</sup>	NY Part375- Industrial <sup>4</sup>	NY Part375- Protection of GW <sup>5</sup>	NY Part375- Residential <sup>6</sup>	NY Part375- Restricted Residential <sup>7</sup>	NY Part375- Unrestricted <sup>8</sup>	SB-MW-12 SB-MW-12-8.0-9.0-101618 8.0 - 9.0 ft BGS 10/16/2018	SB-MW-12 SB-MW-12-12.4-12.5-101618 12.4-12.5 ft BGS 10/16/2018	SB-MW-13 SB-MW-13-9.0-10.0-101618 9.0 - 10.0 ft BGS 10/16/2018	SB-MW-13 X-1-101618 9.0 - 10.0 ft BGS 10/16/2018	SB-MW-13 SB-MW-13-22.0-22.2-101618 22.0 - 22.2 ft BGS 10/16/2018
<b>VOCs</b>													
2-Butanone	0.3	100	500	1000	0.12	100	100	0.12	ND	ND	0.01 J	0.0085 J	0.013 J
Acetone	NC	NC	500	1000	0.05	100	100	0.05	ND	ND	0.052*	0.043	0.081*
Chloroform	NC	NC	350	700	0.37	10	49	0.37	ND	ND	ND	ND	ND
Methylene Chloride	NC	NC	500	1000	0.05	51	100	0.05	0.011 B	ND	ND	ND	ND
Tetrachloroethene	NC	NC	150	300	1.3	5.5	19	1.3	ND	ND	ND	ND	ND
<b>SVOCs</b>													
Benzo[a]anthracene	NC	NC	5.6	11	1	1	1	1	0.082 J	NA	ND	ND	NA
Benzo[a]pyrene	NC	NC	1	1.1	22	1	1	1	0.059 J	NA	ND	ND	NA
Benzo[b]fluoranthene	NC	NC	5.6	11	1.7	1	1	1	0.096 J	NA	0.034 J	0.034 J	NA
Benzo[g,h,i]perylene	NC	NC	500	1,000	1,000	100	100	100	0.033 J	NA	ND	ND	NA
Benzo[k]fluoranthene	NC	NC	56	110	1.7	1	3.9	0.8	0.036 J	NA	ND	ND	NA
Chrysene	NC	NC	56	110	1	1	3.9	1	0.079 J	NA	ND	ND	NA
Fluoranthene	NC	NC	500	1,000	1,000	100	100	100	0.14 J	NA	ND	ND	NA
Fluorene	NC	NC	500	1,000	386	100	100	30	ND	NA	ND	ND	NA
Indeno[1,2,3-cd]pyrene	NC	NC	5.6	11	8.2	0.5	0.5	0.5	0.03 J	NA	ND	ND	NA
Phenanthrene	NC	NC	500	1,000	1,000	100	100	100	0.029 J	NA	ND	ND	NA
Pyrene	NC	NC	500	1,000	1,000	100	100	100	0.11 J	NA	ND	ND	NA
<b>PCBs</b>													
No Constituents Detected													
<b>Pesticides</b>													
4-4-DDT	NC	NC	47	94	136	1.7	7.9	0.0033	ND	NA	ND	ND	NA
<b>Inorganics</b>													
Aluminum	NC	NC	NC	NC	NC	NC	NC	NC	15,000 J	ND	17,300 J	144,00 J	ND
Arsenic	NC	NC	16	16	16	16	16	13	6.3	NA	3.3	3.6	NA
Barium	NC	NC	400	10,000	820	350	400	350	130	NA	79.4	72.5	NA
Beryllium	NC	NC	590	2,700	47	14	72	7.2	0.77	NA	0.68	0.72	NA
Cadmium	NC	NC	9.3	60	7.5	2.5	4.3	2.5	0.16 J	NA	0.12 J	0.10 J	NA
Calcium	NC	NC	NC	NC	NC	NC	NC	NC	1,690 JH	NA	1,060 JH	1,060 JH	NA
Chromium	NC	NC	NC	NC	NC	NC	NC	NC	18.0	NA	18.1	14.8	NA
Cobalt	NC	30	NC	NC	NC	NC	NC	NC	13.3	NA	26.5	12.1	NA
Copper	NC	NC	270	10,000	1,720	270	270	50	27.4	NA	22.6	29.9	NA
Cyanide (Amenable)	NC	NC	27	10,000	40	27	27	27	ND	NA	ND	1.2 JH	NA
Iron	NC	2,000	NC	NC	NC	NC	NC	NC	27,800	NA	22,600	17,800	NA
Lead	NC	NC	1,000	3,900	450	400	400	63	19.3	NA	55.6	85.8	NA
Magnesium	NC	NC	NC	NC	NC	NC	NC	NC	51,30 JH	NA	3,760 JH	3,070 JH	NA
Manganese	NC	NC	10,000	10,000	2,000	2,000	2,000	1,600	1,000 JH	NA	469 JH	292 JH	NA
Mercury	NC	NC	2.8	5.7	0.73	0.81	0.81	0.18	0.029	NA	0.044	0.058	NA
Nickel	NC	NC	310	10,000	130	140	310	30	25.9	NA	21.0	16.8	NA
Potassium	NC	NC	NC	NC	NC	NC	NC	NC	2,180 J	NA	2,330 J	1,810 J	NA
Silver	NC	NC	1,500	6,800	8.3	36	180	2	ND	NA	ND	ND	NA
Sodium	NC	NC	NC	NC	NC	NC	NC	NC	169 J	NA	424 J	375 J	NA
Vanadium	NC	100	NC	NC	NC	NC	NC	NC	20.3 J	NA	29.1 J	25.3 J	NA
Zinc	NC	NC	10000	10000	2480	2200	10000	109	76.7 JH	NA	55.8 JH	58.1 JH	NA

**Table 5-2  
Detected Constituents in Subsurface Soil  
October 2018**

**Tim Bayly Off-Site  
Rensselaer, New York**

**Notes:**

1. Volatile Organic Compounds (VOCs) quantitated using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C. Semi Volatile Organic Compound (SVOCs) quantitated using USEPA SW-846 Method 8270D. Polychlorinated Biphenyls (PCBs) quantitated using USEPA SW-846 Method 8082A. Pesticides quantitated using USEPA SW-846 Method 8081B. Metals quantitated using USEPA SW-846 method 6010C. Mercury quantitated using method 7471B. Cyanide quantitated using method USEPA SW-846 method 9012B.
2. All results in milligrams per kilogram (mg/kg).
3. All analyses performed by TestAmerica Inc. of Amherst, New York.
4. <sup>1</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
5. <sup>2</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
6. <sup>3</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
6. <sup>4</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Industrial, December 14, 2006.
6. <sup>5</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
6. <sup>6</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Residential, December 14, 2006.
6. <sup>7</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Restricted Residential, December 14, 2006.
6. <sup>8</sup> NYCRR Part 375, Table 375-6.8 (a): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, Unrestricted, December 14, 2006.

	Exceeds NYS CP-51 Residential SCOs
	Exceeds NYS Part 375 GW Protection, Residential, Restricted Residential and Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted, GW Protection SCOs
	Exceeds NYS Part 375 Residential and Unrestricted SCOs

- \* - Exceeds NYS Part 375 GW Protection
5. Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
  6. "ft BGS" designates feet below ground surface.
  7. "NC" designates no criteria.
  8. "ND" designates analyte not detected.
  9. "NA" designates analyte was not analyzed for.
  10. "B" designates analyte was also detected in laboratory blank.
  11. "J" designates analyte detected at an estimated concentration.
  12. "JH" designates analyte detected at an estimated high concentration.
  13. "T" designates MS and/or MSD recovery is outside acceptance limits.



**Table 5-2  
Detected Constituents in Subsurface Soil  
October 2018**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Depth Sample Date	NY CP-51 - Protection of GW <sup>1</sup>	NY CP-51 - Residential <sup>2</sup>	NY Part375- Commercial <sup>3</sup>	NY Part375- Industrial <sup>4</sup>	NY Part375- Protection of GW <sup>5</sup>	NY Part375- Residential <sup>6</sup>	NY Part375- Restricted Residential <sup>7</sup>	NY Part375- Unrestricted <sup>8</sup>	SB-MW-13 SB-MW-13-35.8-36.0-101618 35.8 - 36.0 ft BGS 10/16/2018	SB-MW-14 SB-MW-14-10.0-13.0-101518 10.0 - 13.0 ft BGS 10/15/2018	SB-MW-14 SB-MW-14-23.0-23.2-101518 23.0 - 23.2 ft BGS 10/15/2018	SB-MW-15 SB-MW-15-9.0-10.0-101518 9.0 - 10.0 ft BGS 10/15/2018	SB-MW-15 SB-MW-15-20.9-21.1-101518 20.9 - 21.1 ft BGS 10/15/2018
<b>VOCs</b>													
2-Butanone	0.3	100	500	1000	0.12	100	100	0.12	ND	ND	ND	ND	ND
Acetone	NC	NC	500	1000	0.05	100	100	0.05	0.012 J	0.021 J	ND	ND	ND
Chloroform	NC	NC	350	700	0.37	10	49	0.37	ND	ND	0.00041 J	0.00072 J	0.00037 J
Methylene Chloride	NC	NC	500	1000	0.05	51	100	0.05	ND	ND	ND	ND	ND
Tetrachloroethene	NC	NC	150	300	1.3	5.5	19	1.3	ND	ND	ND	0.00096 J	ND
<b>SVOCs</b>													
Benzo[a]anthracene	NC	NC	5.6	11	1	1	1	1	NA	0.05 J	NA	ND	NA
Benzo[a]pyrene	NC	NC	1	1.1	22	1	1	1	NA	0.046 J	NA	ND	NA
Benzo[b]fluoranthene	NC	NC	5.6	11	1.7	1	1	1	NA	0.079 J	NA	ND	NA
Benzo[g,h,i]perylene	NC	NC	500	1,000	1,000	100	100	100	NA	0.032 J	NA	ND	NA
Benzo[k]fluoranthene	NC	NC	56	110	1.7	1	3.9	0.8	NA	ND	NA	ND	NA
Chrysene	NC	NC	56	110	1	1	3.9	1	NA	0.058 J	NA	ND	NA
Fluoranthene	NC	NC	500	1,000	1,000	100	100	100	NA	0.09 J	NA	ND	NA
Fluorene	NC	NC	500	1,000	386	100	100	30	NA	ND	NA	ND	NA
Indeno[1,2,3-cd]pyrene	NC	NC	5.6	11	8.2	0.5	0.5	0.5	NA	0.031 J	NA	ND	NA
Phenanthrene	NC	NC	500	1,000	1,000	100	100	100	NA	0.065 J	NA	ND	NA
Pyrene	NC	NC	500	1,000	1,000	100	100	100	NA	0.074 J	NA	ND	NA
<b>PCBs</b>													
No Constituents Detected													
<b>Pesticides</b>													
4-4-DDT	NC	NC	47	94	136	1.7	7.9	0.0033	NA	ND	ND	0.035 J	NA
<b>Inorganics</b>													
Aluminum	NC	NC	NC	NC	NC	NC	NC	NC	ND	21,800 J	ND	11,300 J	ND
Arsenic	NC	NC	16	16	16	16	16	13	NA	6.8	NA	13.8	NA
Barium	NC	NC	400	10,000	820	350	400	350	NA	153 J	NA	392	NA
Beryllium	NC	NC	590	2,700	47	14	72	7.2	NA	1.1 J	NA	0.97	NA
Cadmium	NC	NC	9.3	60	7.5	2.5	4.3	2.5	NA	0.26 J	NA	1.3	NA
Calcium	NC	NC	NC	NC	NC	NC	NC	NC	NA	2,180 JH	NA	16,000 JH	NA
Chromium	NC	NC	NC	NC	NC	NC	NC	NC	NA	24.3 J	NA	23.9	NA
Cobalt	NC	30	NC	NC	NC	NC	NC	NC	NA	13.8	NA	10.2	NA
Copper	NC	NC	270	10,000	1,720	270	270	50	NA	29.6 J	NA	135	NA
Cyanide (Amenable)	NC	NC	27	10,000	40	27	27	27	NA	ND	NA	ND	NA
Iron	NC	2,000	NC	NC	NC	NC	NC	NC	NA	29,800 J	NA	18,200	NA
Lead	NC	NC	1,000	3,900	450	400	400	63	NA	20.9 T	NA	1,320*	NA
Magnesium	NC	NC	NC	NC	NC	NC	NC	NC	NA	5,530 JH	NA	5,210 JH	NA
Manganese	NC	NC	10,000	10,000	2,000	2,000	2,000	1,600	NA	504 JH	NA	386 JH	NA
Mercury	NC	NC	2.8	5.7	0.73	0.81	0.81	0.18	NA	0.049 T	NA	1.3*	NA
Nickel	NC	NC	310	10,000	130	140	310	30	NA	34.5	NA	22.6	NA
Potassium	NC	NC	NC	NC	NC	NC	NC	NC	NA	4,110 J	NA	2,080 J	NA
Silver	NC	NC	1,500	6,800	8.3	36	180	2	NA	ND	NA	1.8	NA
Sodium	NC	NC	NC	NC	NC	NC	NC	NC	NA	1,070 J	NA	248 J	NA
Vanadium	NC	100	NC	NC	NC	NC	NC	NC	NA	36.3 J	NA	29.9 J	NA
Zinc	NC	NC	10000	10000	2480	2200	10000	109	NA	73.3 J	NA	541 JH	NA

**Table 5-2**  
**Detected Constituents in Subsurface Soil**  
**October 2018**

**Tim Bayly Off-Site**  
**Rensselaer, New York**

**Notes:**

1. Volatile Organic Compounds (VOCs) quantitated using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C. Semi Volatile Organic Compound (SVOCs) quantitated using USEPA SW-846 Method 8270D. Polychlorinated Biphenyls (PCBs) quantitated using USEPA SW-846 Method 8082A. Pesticides quantitated using USEPA SW-846 Method 8081B. Metals quantitated using USEPA SW-846 method 6010C. Mercury quantitated using method 7471B. Cyanide quantitated using method USEPA SW-846 method 9012B.
2. All results in milligrams per kilogram (mg/kg).
3. All analyses performed by TestAmerica Inc. of Amherst, New York.
4. <sup>1</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
5. <sup>2</sup> CP-51, Soil Cleanup Guidance, Table 1: Supplemental Soil Cleanup Objectives, Residential, October 21, 2010.
6. <sup>3</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
7. <sup>4</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Industrial, December 14, 2006.
8. <sup>5</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
9. <sup>6</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Residential, December 14, 2006.
10. <sup>7</sup> NYCRR Part 375, Table 375-6.8 (a): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Restricted Residential, December 14, 2006.
11. <sup>8</sup> NYCRR Part 375, Table 375-6.8 (a): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, Unrestricted, December 14, 2006.

	Exceeds NYS CP-51 Residential SCOs
	Exceeds NYS Part 375 GW Protection, Residential, Restricted Residential and Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted SCOs
	Exceeds NYS Part 375 Unrestricted, GW Protection SCOs
	Exceeds NYS Part 375 Residential and Unrestricted SCOs

\* - Exceeds NYS Part 375 GW Protection

5. Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
6. "ft BGS" designates feet below ground surface.
7. "NC" designates no criteria.
8. "ND" designates analyte not detected.
9. "NA" designates analyte was not analyzed for.
10. "B" designates analyte was also detected in laboratory blank.
11. "J" designates analyte detected at an estimated concentration.
12. "JH" designates analyte detected at an estimated high concentration.
13. "T" designates MS and/or MSD recovery is outside acceptance limits.

**Table 5-3  
Detected Constituents in Groundwater  
January 2019**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Date	NYS GW CLASS GA <sup>1</sup>	USEPA DRINKING WATER HEALTH ADVISORY <sup>2</sup>	MW-02 MW-2-010919 1/9/2019	MW-16 MW-16-010919 1/9/2019	MW-16 X-1-010919 1/9/2019	MW-14 MW-14-011019 1/10/2019	EB1-010919 1/9/2019
<b>Chemical Name</b>							
<b>VOCs</b>							
No Constituents Detected							
<b>SVOCs (µg/L)</b>							
1,4-Dioxane	NC	NC	0.053 J	0.16 J	0.12 J	0.067 J	0.076 J
<b>PCBs</b>							
No Constituents Detected							
<b>Pesticides</b>							
No Constituents Detected							
<b>Inorganics (µg/L)</b>							
Aluminum	NC	NC	60.2 J	21,900 J	22,400 J	4,100 JH	ND
Arsenic	25	NC	4.8 J	11.6 J	11.8 J	3.1 J	ND
Barium	1,000	NC	79.4 J	315	321	284	ND
Beryllium	3	NC	ND	1.3 J	1.4 J	ND	ND
Cadmium	5	NC	ND	ND	ND	ND	ND
Calcium	NC	NC	75,200 J	107,000 J	110,000 J	164,000	ND
Chromium	50	NC	3.8 J	37.6	38.3	104	ND
Cobalt	NC	NC	ND	11.5 J	12.2 J	5.6 J	ND
Copper	200	NC	ND	75.2 J	75.5 J	44.1	ND
Cyanide (total)	200	NC	8.5 J	ND	ND	5.2 J	ND
Iron	300	NC	82.1 J	34,600	36,000	5,990	ND
Lead	25	NC	ND	231 J	236 J	25.2 JH	ND
Magnesium	35,000	NC	258,000 J	66,700 J	68,100 J	204,000	ND
Manganese	300	NC	1.6 J	649	664	545	ND
Mercury	0.7	NC	ND	0.72	0.69	ND	ND
Nickel	100	NC	ND	31.5 J	33.0 J	174 JH	ND
Potassium	NC	NC	7,930 J	8,700 J	8,960 J	6,480	ND
Selenium	10	NC	28.8 JH	ND	ND	ND	ND
Sodium	20,000	NC	77,400 J	55,500 J	56,500 J	735,000	ND
Vanadium	NC	NC	ND	38.6 J	40.1 J	9.1 J	ND
Zinc	2,000	NC	ND	322	328	64.1	ND
<b>PFAS (ng/L)</b>							
Perfluorobutanesulfonate	NC	NC	9.5	61	63	2.2	ND
Perfluorobutanoic acid	NC	NC	9.5	67	67	19 JH	ND
Perfluorodecanoic acid	NC	NC	ND	0.38 J	ND	ND	ND
Perfluoroheptanesulfonate	NC	NC	2.6	1.9	2.4	ND	ND
Perfluoroheptanoic acid	NC	NC	7.6	3.6	4.3	1.6 J	ND
Perfluorohexanesulfonic Acid	NC	NC	55 JH	1500 JH	2100 JH	6.7 JH	ND
Perfluorohexanoic acid	NC	NC	8.3	18	17	3.2	ND
Perfluorononanoic acid	NC	NC	0.80 J	0.39 J	0.57 J	0.28 J	ND
Perfluoro-octanesulfonate (PFOS)	NC	70	42	160	200	3.9	ND
Perfluorooctanoic acid (PFOA)	NC	70	19	26	35	5.3	ND
Perfluoropentanoic acid	NC	NC	8.0	8.0	7.5	2.0 J	ND
Total PFOS and PFOA	NC	70	61	186	235	9.2	ND

**Notes:**

1. Volatile Organic Compounds (VOCs) quantitated using United States Environmental Protection Agency (USEPA) SW-846 Method 8260C. 1,4-Dioxane quantitated using USEPA SW-846 Method 8270D selected Ion Monitoring (SIM). Semi Volatile Organic Compound (SVOCs) quantitated using USEPA SW-846 Method 8270D. Polychlorinated Biphenyls (PCBs) quantitated using USEPA SW-846 Method 8082A. Pesticides quantitated using USEPA SW-846 Method 8081B. Metals quantitated using USEPA SW-846 method 6010D. Mercury quantitated using method USEPA SW-845 method 7470A. Cyanide quantitated using method USEPA SW-846 method 9010B. Per- and Polyfluoroalkyl Substances (PFAS) quantitated using USEPA SW-845 Method 537 (modified).
2. 'µg/L' designates micrograms per liter and 'ng/L' designates nanograms per liter.
3. All analyses performed by TestAmerica Inc. of Edison, New Jersey except for PFAS which were analyzed by TestAmerica Inc. of West Sacramento, California.
4. <sup>1</sup> New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998. Gray shaded cells indicate exceedance of this criteria.
5. <sup>2</sup> United States Environmental Protection Agency (USEPA) lifetime health advisory for drinking water. Exceedances indicated in blue.
6. Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
7. "NC" designates no criteria.
8. "ND" designates analyte not detected.
9. "J" designates analyte detected at an estimated concentration.
10. "JH" designates analyte detected concentration is biased high.

**Table 5-4  
Detected Constituents in Soil Vapor  
January 2019**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Date	SV-02 SV-02-010319 1/3/2019	SV-12 SV-12-010319 1/3/2019	SV-14 SV-14-010319 1/3/2019	SV-14 X-1-010319 1/3/2019	AA-010319 1/3/2019
Chemical Name					
1,1,2-trichloro-1,2,2-trifluoroethane	0.49 J	ND	0.48 J	0.46 J	0.46 J
1,2,4-Trimethylbenzene	1.5	0.37 J	0.16 J	ND	0.21 J
1,2-Dichlorobenzene	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.50 J	0.16 J	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND	ND
1,4-Dioxane	ND	ND	ND	ND	2.3 J
2-Butanone	ND	3.9	ND	ND	ND
4-Methyl-2-Pentanone	1.3 J	ND	ND	ND	ND
Acetone	11 J	12	ND	ND	ND
Benzene	ND	ND	ND	ND	ND
Carbon disulfide	ND	4.0	ND	ND	3.3
Carbon Tetrachloride	0.15 J	ND	0.44 J	0.39 J	0.48 J
Chloroform	7.9	ND	2.2	0.75 J	ND
Chloromethane	ND	ND	1.1	1.1	1.1
cis-1,2-Dichloroethene	0.30 J	ND	ND	ND	ND
Cyclohexane	0.17 J	0.062 J	0.28 J	ND	0.16 J
Dibromodifluoromethane	2.6 JH	ND	ND	ND	ND
Ethylbenzene	1.8 JH	ND	ND	ND	ND
Hexane	ND	ND	5.1 JH	ND	ND
Isopropyl Alcohol	1.6 J	ND	ND	ND	ND
Isopropylbenzene	0.19 J	ND	ND	ND	ND
m&p-Xylene	7.3	1.7 J	0.51 J	0.36 J	0.51 J
Methylene Chloride	ND	ND	ND	ND	1.6 J
o-Xylene	2.7 JH	ND	ND	ND	ND
Styrene	0.59 J	ND	ND	ND	ND
Tetrachloroethene	21	5.3	16	2.1	ND
Tetrahydrofuran	6.2 J	6.4 J	1.2 J	0.58 J	ND
Toluene	4.6 JH	2.5 JH	1.1 JH	0.79 JH	ND
Trichloroethene	1.7	ND	ND	ND	ND
Trichlorofluoromethane	2.1	1.0 J	1.2	1.2	1.2

Notes:

1. Results in micograms per cubic meter ( $\mu\text{g}/\text{m}^3$ )
2. Volatile Organic Compounds (VOCs) quantitated using United States Environmental Protection Agency (USEPA) SW-846 TO-15.
3. Analyses performed by TestAmerica Inc. of Burlington, Vermont.
4. Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
5. "ND" designates analyte not detected.
6. "J" designates analyte detected at an estimated concentration.
7. "JH" designates analyte detected at an estimated high concentration.

**Table 5-5  
Vapor Intrusion Results - 810 Broadway**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Date	Outdoor Ambient 810B_OA_01_031119_031219 3/12/2019	Indoor Air Basement 810B_IA_01_031119_031219 3/12/2019	Sub Slab - Basement 810B_SS_01_031119_031219 3/12/2019	NYSDOH Decision Matrix <sup>a</sup>	Indoor Air First Floor 810B_IA_02_031119_031219 3/12/2019	Indoor Air First Floor X_1_031119_031219 3/12/2019	Indoor Air Sub-Basement 810B_IA_03_031119_031219 3/12/2019	Sub Slab - Sub-Basement 810B_SS_03_040919-041019 4/10/2019	NYSDOH Decision Matrix <sup>a</sup>	Sub Slab - Sub-Basement 810B_SS_03_01_041019-041119 4/11/2019
<b>Chemical Name</b>										
<b>Matrix A Compounds</b>										
Trichloroethene	1.1 U	0.43 J	0.31 J	NFA	1.1 U	1.1 U	8.5	0.90 J	IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE	2.2
cis-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	NFA	0.79 U	0.79 U	0.90	0.79 U	NFA	2.8
1,1-Dichloroethene	0.79 U	0.79 U	0.79 U	NFA	0.79 U	0.79 U	0.79 U	0.79 U	NFA	0.79 U
Carbon tetrachloride	0.31 J	0.41 J	0.26 J	NFA	0.42 J	0.30 J	0.37 J	1.3 U	NFA	1.3 U
<b>Matrix B Compounds</b>										
Tetrachloroethene	1.4 U	0.27 J	12	NFA	0.23 J	1.4 U	18	22	IDENTIFY SOURCE(S) and RESAMPLE or MITIGATE	2.8
1,1,1-Trichloroethane	1.1 U	1.1 U	1.1 U	NFA	1.1 U	1.1 U	0.63 J	1.1 U	NFA	0.59 J
Methylene chloride	0.55 J	0.57 J	1.7 U	NFA	0.46 J	1.4 J	0.48 J	0.96 J	NFA	1.7 U
<b>Matrix C Compounds</b>										
Vinyl chloride	0.51 U	0.51 U	0.51 U	NFA	0.51 U	0.51 U	0.51 U	0.51 U	NFA	0.51 U
<b>Other Compounds</b>										
1,1,2,2-Tetrachloroethane	1.4 U	1.4 U	1.4 U	NA	1.4 U	1.4 U	1.4 U	1.4 U	NA	1.4 U
1,1,2-trichloro-1,2,2-trifluoroethane	0.45 J	0.60 J	0.44 J	NA	0.41 J	0.42 J	0.57 J	1.5 U	NA	1.5 U
1,1,2-Trichloroethane	1.1 U	1.1 U	1.1 U	NA	1.1 U	1.1 U	1.1 U	1.1 U	NA	1.1 U
1,1-Dichloroethane	0.81 U	0.81 U	0.81 U	NA	0.81 U	0.81 U	0.81 U	0.81 U	NA	0.81 U
1,2,4-Trichlorobenzene	15 U	15 U	15 U	NA	15 U	15 U	15 U	15 U	NA	15 U
1,2,4-Trimethylbenzene	0.98 U	0.98 U	0.72 J	NA	0.98 U	0.98 U	0.98 U	0.98 U	NA	0.28 J
1,2-Dichloro-1,1,2,2-tetrafluoroethane	1.4 U	1.4 U	1.4 U	NA	1.4 U	1.4 U	1.4 U	1.4 U	NA	1.4 U
1,2-Dibromoethane (EDB)	1.5 U	1.5 U	1.5 U	NA	1.5 U	1.5 U	1.5 U	1.5 U	NA	1.5 U
1,2-Dichlorobenzene	2.1 JH	1.2 U	1.2 U	NA	1.2 U	1.2 U	1.2 U	1.2 U	NA	1.2 U
1,2-Dichloroethane	0.81 U	0.81 U	0.81 U	NA	0.81 U	0.81 U	0.81 U	0.81 U	NA	0.81 U
1,2-Dichloropropane	0.92 U	0.92	0.92 U	NA	0.78 J	0.42 J	0.92 U	0.92 U	NA	0.92 U
1,3,5-Trimethylbenzene	0.14 J	0.98 U	0.19 J	NA	0.10 J	0.98 U	0.98 U	0.98 U	NA	0.98 U
1,3-Dichlorobenzene	1.2 U	1.2 U	1.2 U	NA	1.2 U	1.2 U	1.2 U	1.2 U	NA	1.2 U
1,4-Dichlorobenzene	1.2 U	1.2 U	1.2 U	NA	1.2 U	1.2 U	1.2 U	1.2 U	NA	1.2 U
1,4-Dioxane	18 U	18 U	18 U	NA	18 U	18 U	18 U	18 U	NA	18 U
2-Butanone (MEK)	1.2 J	1.9 J	0.78 J	NA	1.5 J	7.1	0.54 J	2.9 U	NA	2.9 U
4-Methyl-2-pentanone (MIBK)	2.0 U	2.0 U	2.0 U	NA	2.0 U	2.0 U	2.0 U	2.0 U	NA	2.0 U
Acetone	6.4 J	14	3.4 J	NA	12 J	67	3.1 J	12 U	NA	6.9 J
Benzene	0.64 U	0.64 U	0.16 J	NA	0.64 U	0.64 U	0.64 U	0.18 J	NA	0.14 J
Benzyl chloride	4.1 U	4.1 U	4.1 U	NA	4.1 U	4.1 U	4.1 U	4.1 U	NA	4.1 U
Bromodichloromethane	1.3 U	1.3 U	1.3 U	NA	1.3 U	1.3 U	1.3 U	1.3 U	NA	1.3 U
Bromoform	2.1 U	2.1 U	2.1 U	NA	2.1 U	2.1 U	2.1 U	0.87 U	NA	0.87 U
Bromomethane	0.78 U	0.78 U	0.78 U	NA	0.78 U	0.78 U	0.78 U	2.1 U	NA	2.1 U
Carbon disulfide	1.6 U	1.6 U	0.57 J	NA	1.6 U	1.6 U	1.6 U	1.6 U	NA	1.6 U
Chlorobenzene	0.92 U	0.92 U	0.92 U	NA	0.92 U	0.92 U	0.92 U	0.92 U	NA	0.92 U
Chloroethane	2.1 U	2.1 U	2.1 U	NA	2.1 U	2.1 U	2.1 U	2.1 U	NA	2.1 U
Chloroform	0.98 U	0.98 U	0.98 U	NA	0.98 U	0.98 U	0.45 J	1.0	NA	0.98 U
Chloromethane	1.3	1.3	1.0 U	NA	1.1	0.99 J	0.38 J	1.0 U	NA	1.0 UJ
Cis-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	NA	0.91 U	0.91 U	0.91 U	0.91 U	NA	0.91 U
Cyclohexane	1.7 U	1.7 U	0.11 J	NA	0.069 J	0.19 J	1.7 U	1.7 U	NA	1.7 U
Dibromochloromethane	1.7 U	1.7 U	1.7 U	NA	1.7 U	1.7 U	1.7 U	1.7 U	NA	1.7 U
Dichlorodifluoromethane	2.0 J	2.5	1.8 J	NA	2.0 J	1.7 J	2.2 J	1.9 J	NA	2.1 J
Ethylbenzene	0.87 U	0.22 J	0.25 J	NA	0.19 J	0.13 J	0.87 U	0.16 J	NA	0.87 U
Hexachlorobutadiene	21 U	21 U	21 U	NA	21 U	21 U	21 U	21 U	NA	21 U
Hexane	2.8 U	2.8 U	0.25 J	NA	2.8 U	1.1 J	2.8 U	2.8 U	NA	2.8 U
Isopropyl alcohol	0.57 J	4.0 J	0.39 J	NA	2.6 J	23	0.45 J	12 U	NA	1.1 J
Isopropylbenzene	3.9 U	3.9 U	3.9 U	NA	3.9 U	3.9 U	3.9 U	3.9 U	NA	0.24 J
m-Xylene & p-Xylene	0.43 J	0.47 J	3.5 U	NA	0.39 J	0.45 J	3.5 U	3.5 U	NA	1.5 J
Methyl tert-butyl ether	3.6 U	3.6 U	3.6 U	NA	3.6 U	3.6 U	3.6 U	3.6 U	NA	3.6 U

**Table 5-5  
Vapor Intrusion Results - 810 Broadway**

**Tim Bayly Off-Site  
Rensselaer, New York**

Location ID Sample ID Sample Date	Outdoor Ambient 810B_OA_01_031119_031219 3/12/2019	Indoor Air Basement 810B_IA_01_031119_031219 3/12/2019	Sub Slab - Basement 810B_SS_01_031119_031219 3/12/2019	NYSDOH Decision Matrix <sup>a</sup>	Indoor Air First Floor 810B_IA_02_031119_031219 3/12/2019	Indoor Air First Floor X_1_031119_031219 3/12/2019	Indoor Air Sub-Basement 810B_IA_03_031119_031219 3/12/2019	Sub Slab – Sub-Basement 810B_SS_03_040919-041019 4/10/2019	NYSDOH Decision Matrix <sup>a</sup>	Sub Slab – Sub-Basement 810B_SS_03_01_041019-041119 4/11/2019
Chemical Name										
Naphthalene	2.6 U	2.6 U	2.6 U	NA	2.6 U	2.6 U	2.6 U	2.6 UJ	NA	2.6 U
o-Xylene	0.39 J	0.18 J	0.49 J	NA	0.13 J	0.19 J	0.87 U	0.17 J	NA	0.16 J
Styrene	0.85 U	0.17 J	0.85 U	NA	0.14 J	0.073 J	0.85 U	0.85 U	NA	0.85 U
Tetrahydrofuran	15 U	0.76 J	15 U	NA	0.79 J	1.5 J	15 U	15 U	NA	15 U
Toluene	0.31 J	0.83	0.73 J	NA	0.66 J	0.74	0.47 J	0.28 J	NA	0.29 J
trans-1,2-Dichloroethene	0.79 U	0.79 U	0.79 U	NA	0.79 U	0.79 U	0.79 U	0.79 U	NA	0.79 U
Trans-1,3-Dichloropropene	0.91 U	0.91 U	0.91 U	NA	0.91 U	0.91 U	0.91 U	0.91 U	NA	0.91 U
Trichlorofluoromethane	1.1 J	1.2	1.3	NA	1.1	0.97 J	1.4	1.5	NA	1.5
Vinyl acetate	18 U	18 U	18 U	NA	18 U	18 U	18 U	18 U	NA	18 U
Vinyl bromide	0.87 U	0.87 U	0.87 U	NA	0.87 U	0.87 U	0.87 U	0.78 U	NA	0.78 U

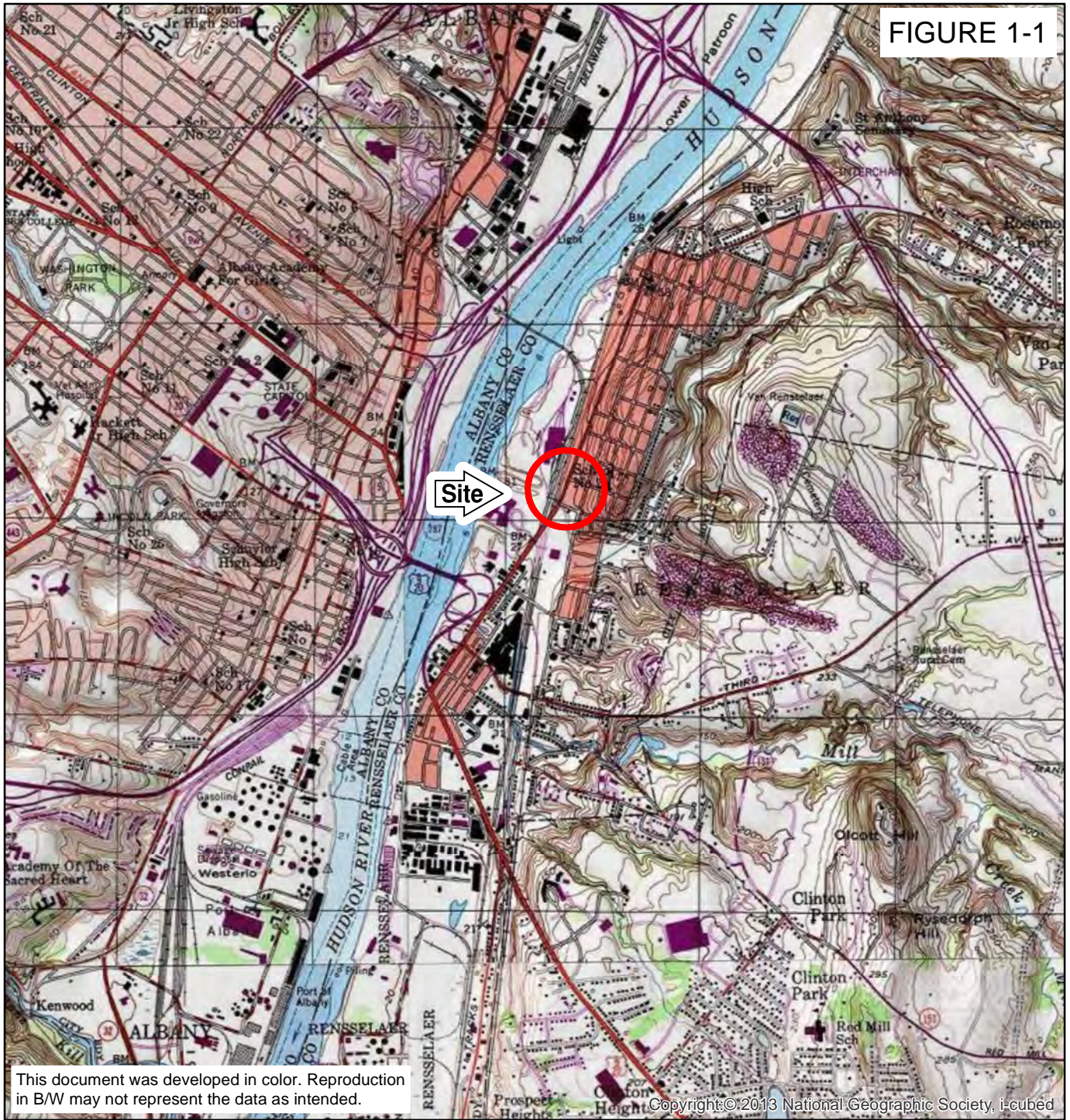
**Notes:**

- Results are in micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ).
- Air samples analyzed by TestAmerica Laboratories, Inc. in Burlington, Vermont using Environmental Protection Agency (EPA) Method TO-15.
- Analytical results validated by Vali-Data of WNY, LLC. in West Falls, New York.
- "a" designates NYSDOH vapor intrusion guidance (Oct 2006 and updates to soil vapor/indoor air decision matrices A, B, and C, May 2017 recommends actions based on the combination of sub-slab and corresponding indoor air concentrations. Used for RFM-related compounds only). In cases where a concentration was not detected above the reporting limit, the reporting limit was used to select recommended action.
- NYSDOH Decision Matrix:  
Identify Source(s) and Resample or Mitigate- NYSDOH recommends that reasonable and practical actions be taken to identify the source(s) affecting the indoor air quality and that actions be implemented to reduce indoor air concentrations to within background ranges.  
Mitigate - Mitigation is recommended by NYSDOH to minimize current or potential exposures associated with vapor intrusion.
- "U" designates analyte not detected.
- "J" designates analyte detected at an estimated concentration.
- "JH" designates analyte detected at an estimated concentration that is biased high.
- "NA" designates not applicable.

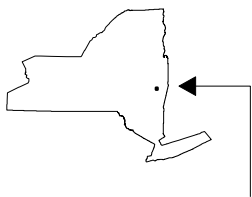


# Figures

FIGURE 1-1



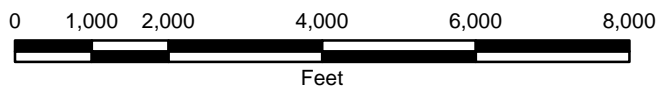
PLOTDATE: never never GARDNEWME  
 \\syracuse\projects\Parsons-Eng\_8653\68940\_Tim-Bayly-Off-Site\Reports\Site Characterization Report\Figures\Figure 1-1 - Site Location.mxd



MAP LOCATION

### TIM BAYLY PROPERTY - OFF-SITE RENSELAER, NEW YORK

### SITE LOCATION MAP





\\syracuse\projects\Parsons-Eng. 8653168940.Tim-Bayly-Off-Site\Reports\Site Characterization Report\Figures\Figure 1-2 - Study Area Site and Remedial Investigation\000008:10:23 AM

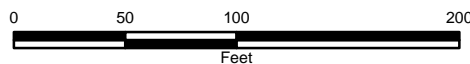


### TIM BAYLY PROPERTY - OFF-SITE RENSSELAER, NEW YORK

### SITE CHARACTERIZATION STUDY AREA MAP

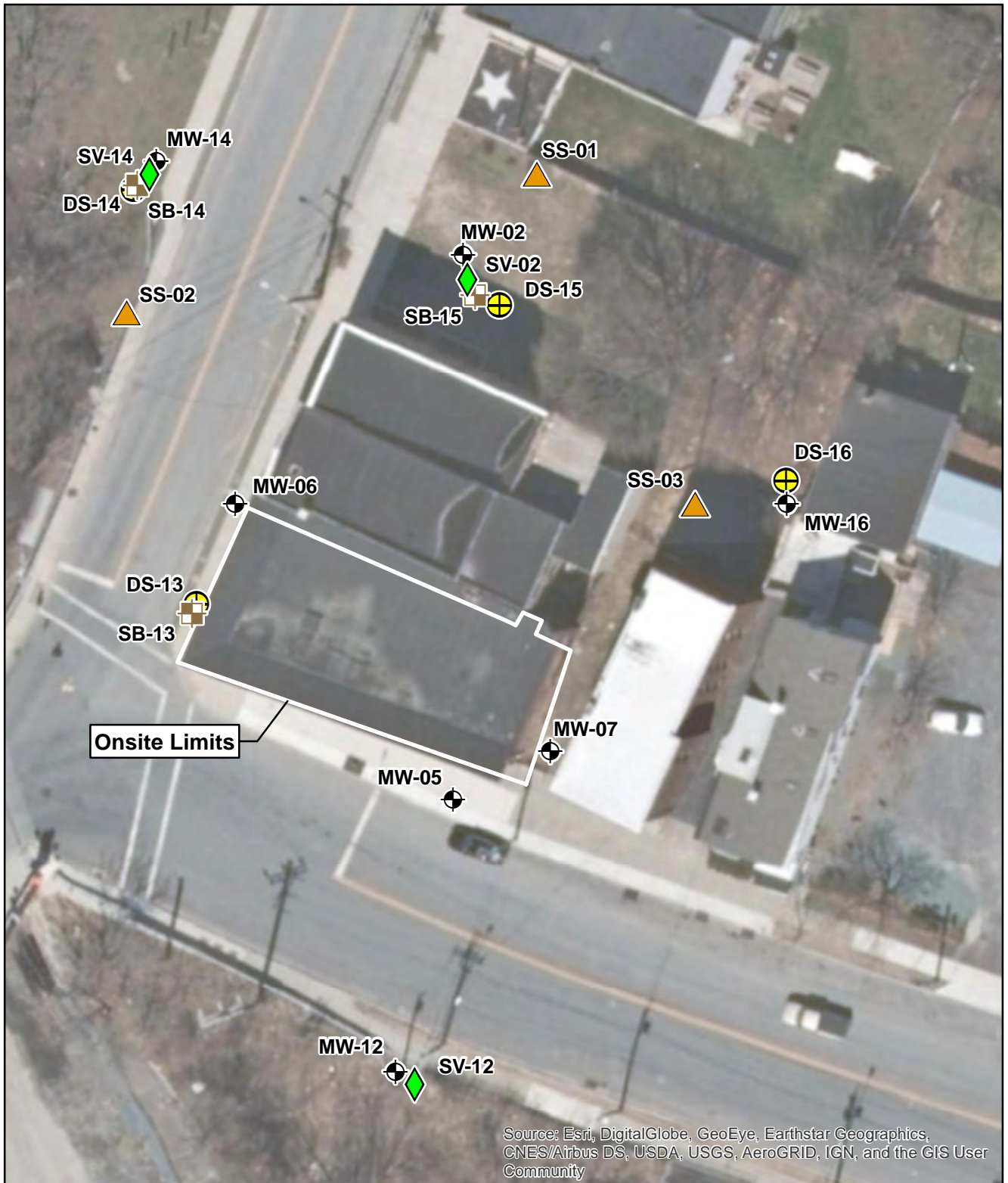


68940  
JANUARY 2020








O'BRIEN & GERE ENGINEERS, INC.

\\syacusess\projects\Parsons-Eng-8653168940.Tim-Bayly-Off-Site\Reports\Site Characterization Report\Figures\Figure 3-1 - Remedial Investigation Locations Map.mxd 2020 8:56:20 AM



**LEGEND**

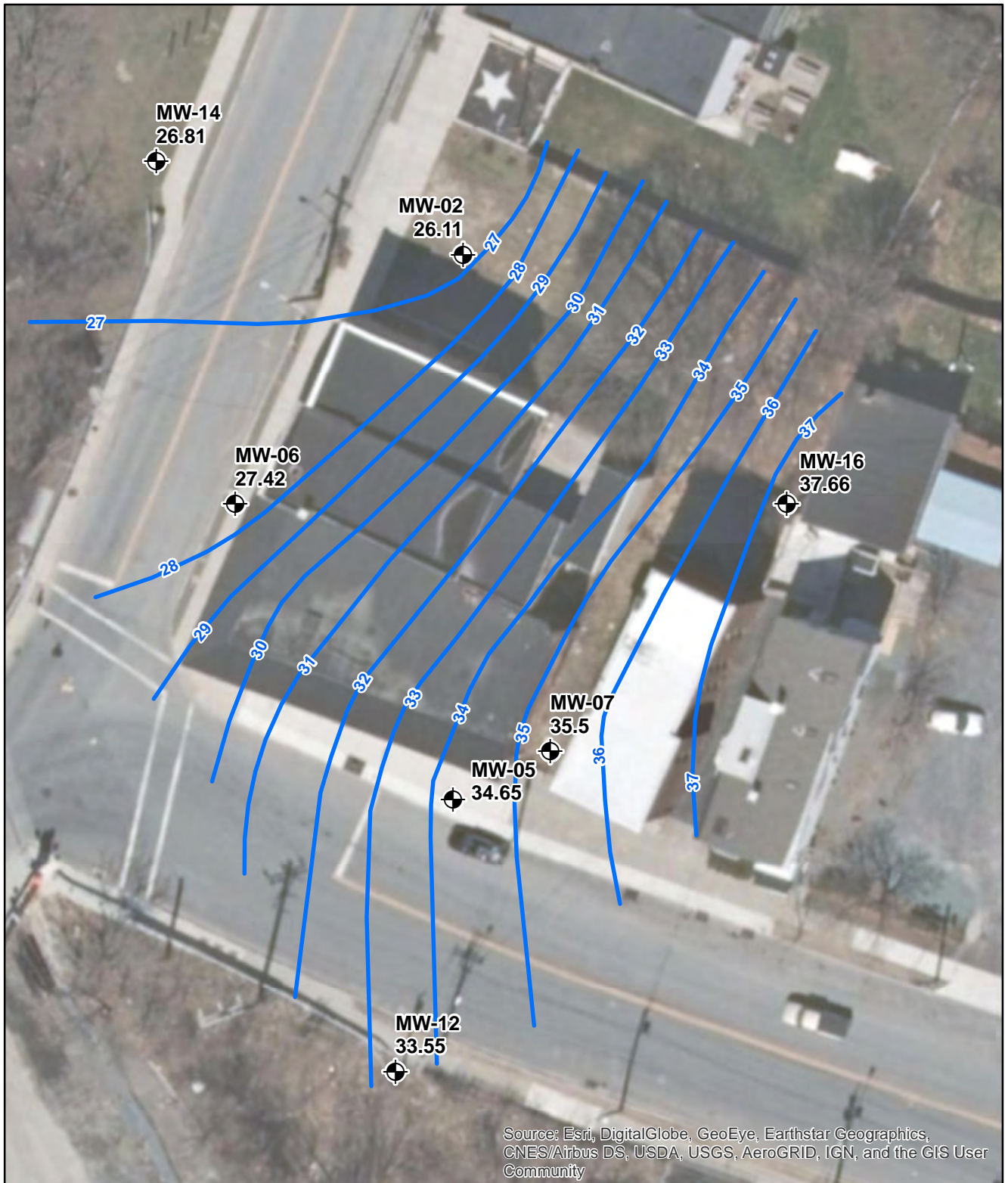
-  SOIL VAPOR POINT
-  SURFACE SOIL
-  SOIL BORING
-  MONITORING WELL
-  DIRECT SENSING

**TIM BAYLY PROPERTY - OFF-SITE  
RENSSELAER, NEW YORK**

**SITE CHARACTERIZATION  
LOCATION MAP**



\\syracuse\projects\Parsons-Eng-8653168940.Tim-Bayly-Off-Site\Reports\Site Characterization Report\Figures\Figure 4-1 - January 2019 Groundwater Contours.dwg 2019 9:47:16 AM



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**LEGEND**

-  MONITORING WELL
-  1 FOOT CONTOUR INTERVAL

**TIM BAYLY PROPERTY - OFF-SITE  
RENSSELAER, NEW YORK**

**JANUARY 2019 GROUNDWATER  
CONTOUR MAP**



O'BRIEN & GERE ENGINEERS, INC.

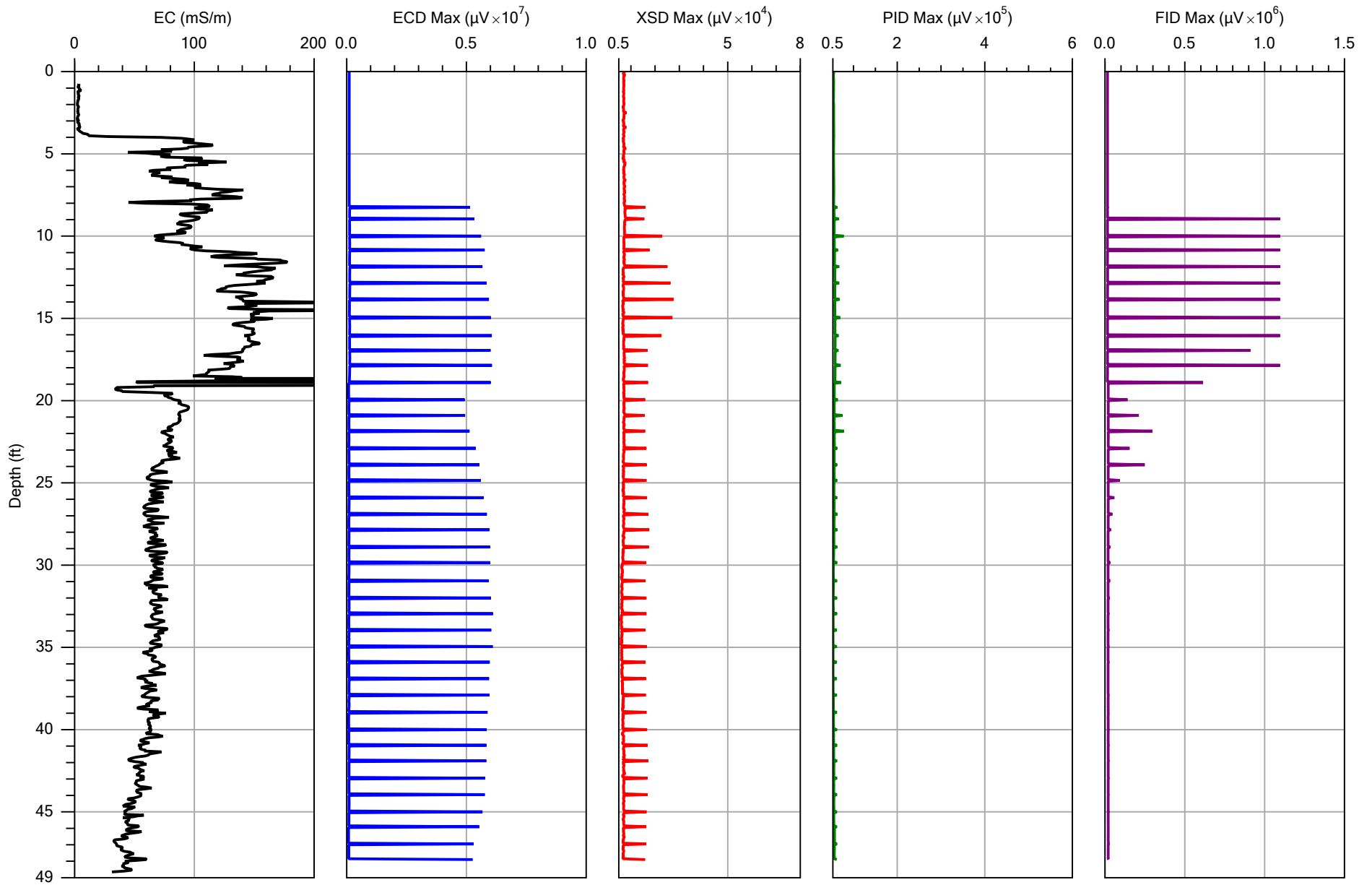


## Appendices

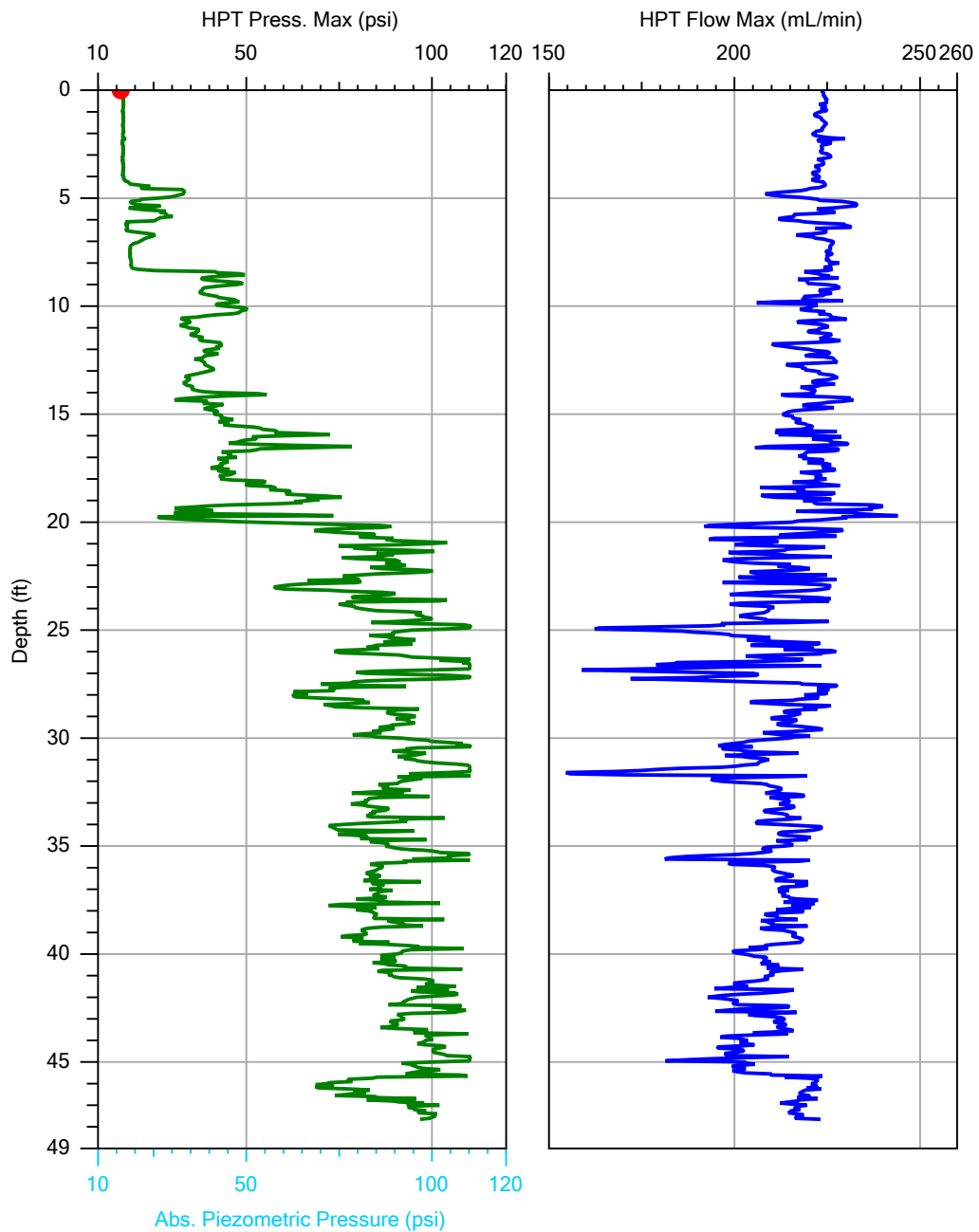


## Appendix A

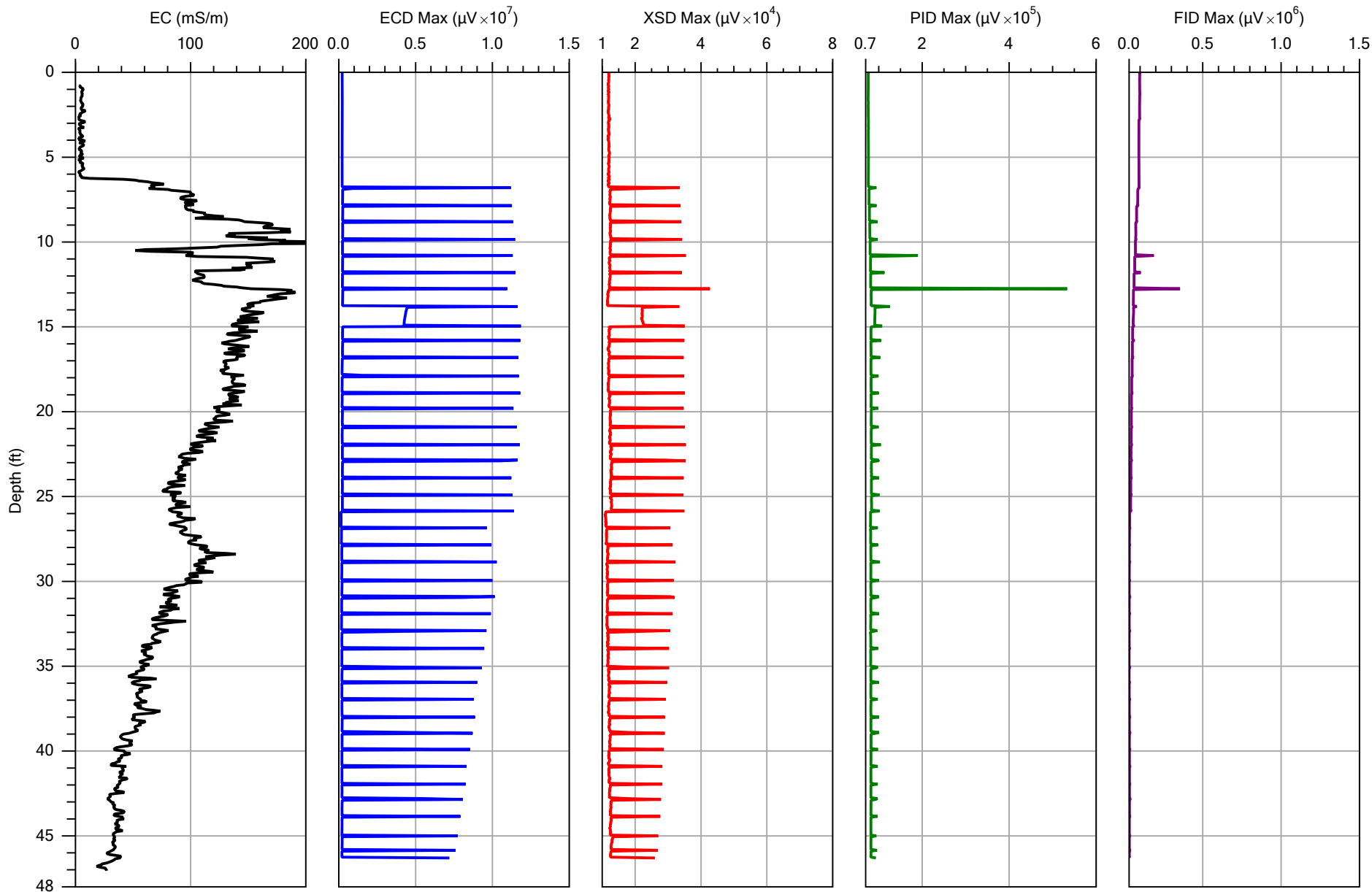
### Direct-Sensing Profiling Logs



Company: Cascade		Operator: C Terry	File: DS-MW-13.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/12/18
			Location:

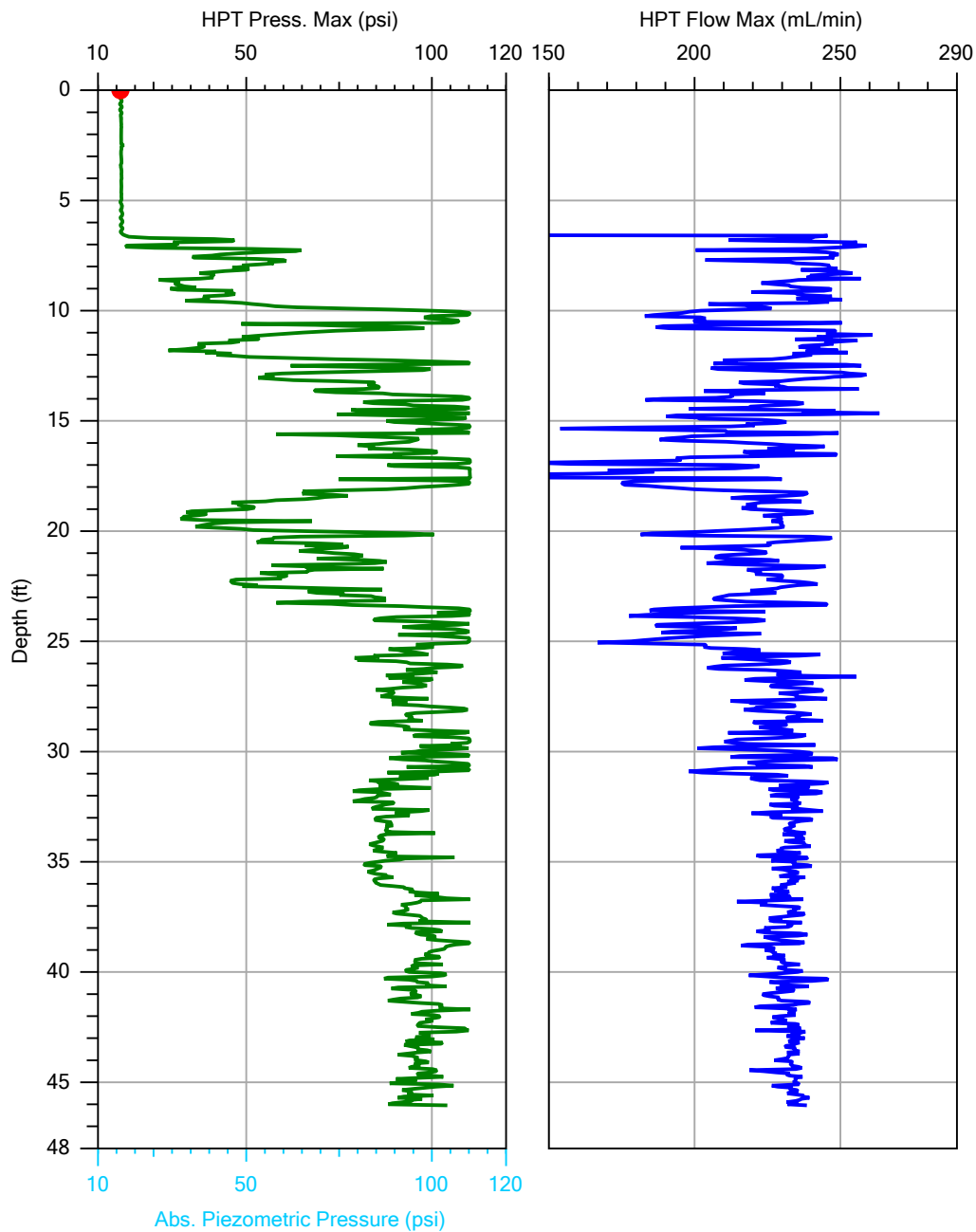


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Project ID: OBG - Rensselaer		Client: OBG	Date: 10/12/18
			Location: Test

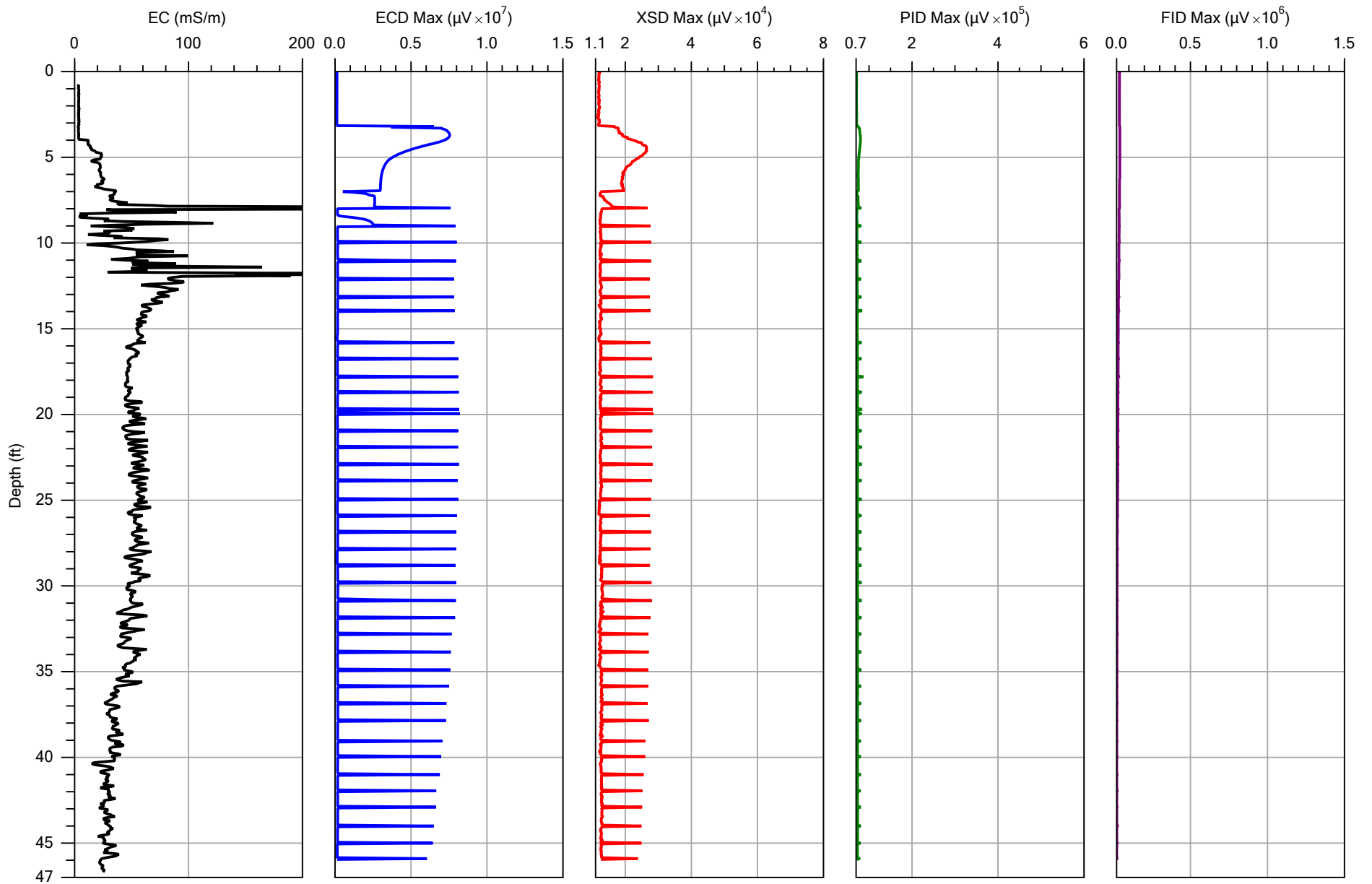


Company: Cascade		Operator: C Terry	File: DS-MW-14.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/11/18
			Location:

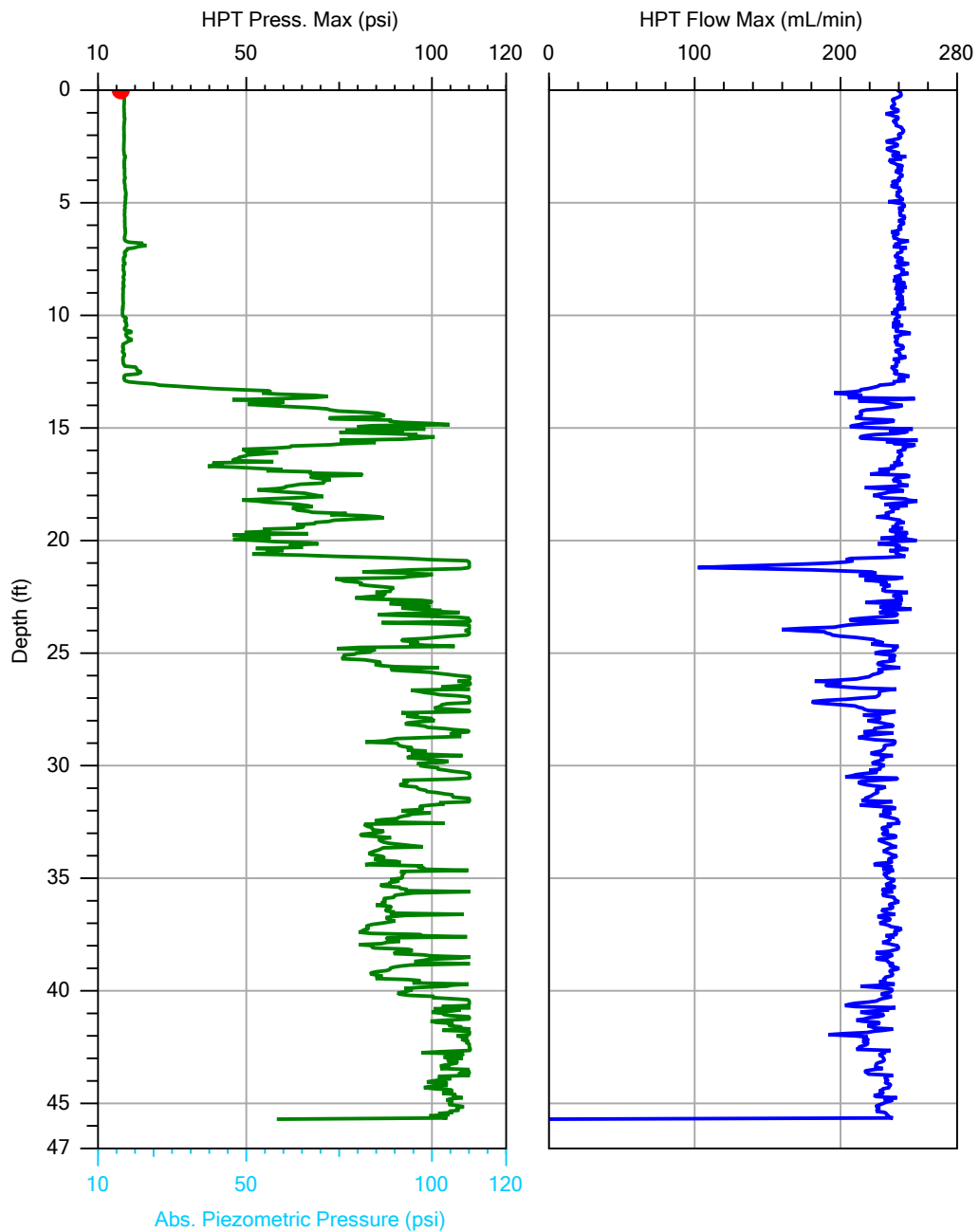




Company: Cascade		Operator: C Terry	File: DS-MW-14.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/11/18
			Location: Test



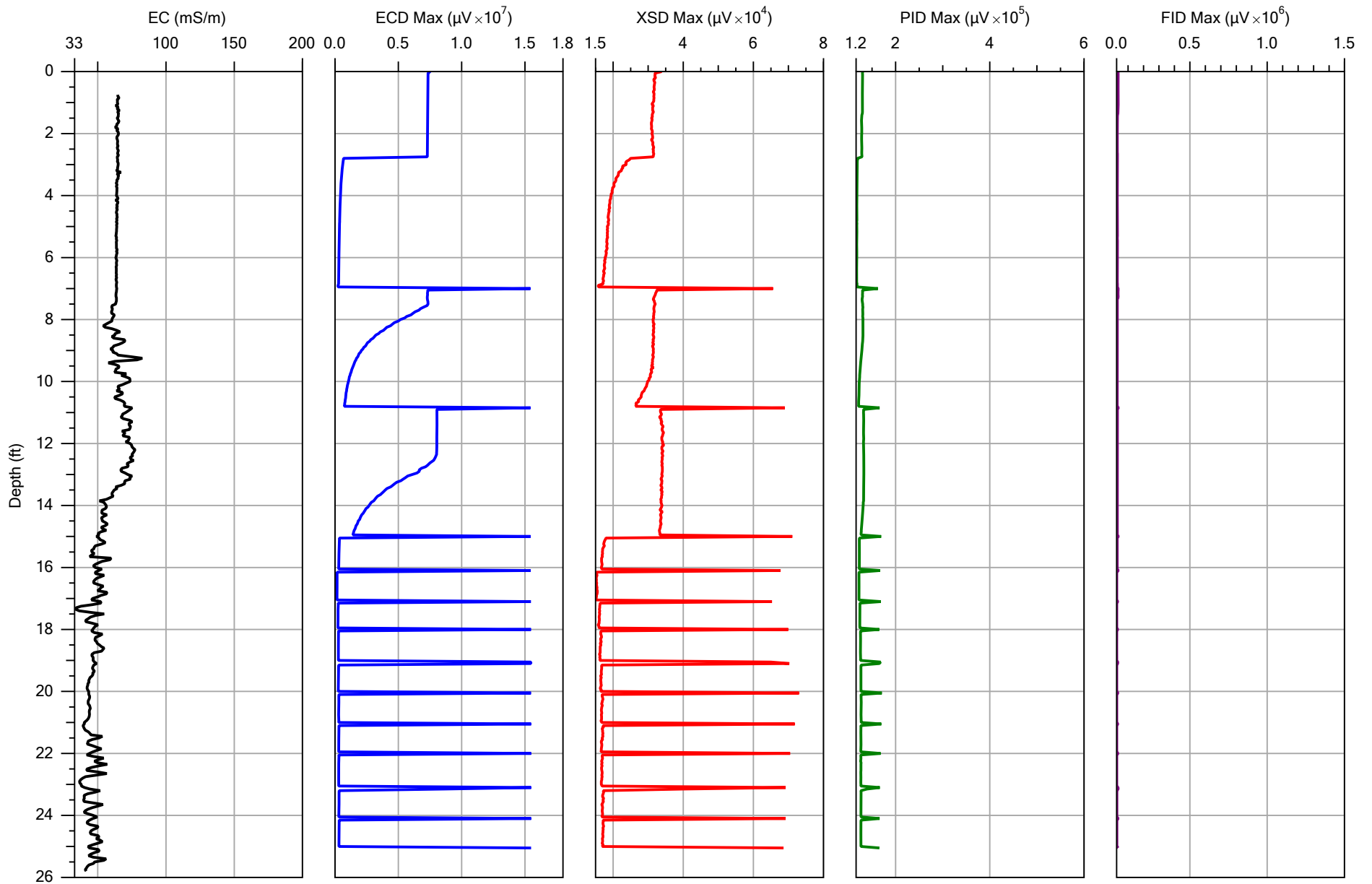
Company: Cascade		Operator: C Terry	File: DS-MW-15.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/11/18
			Location:



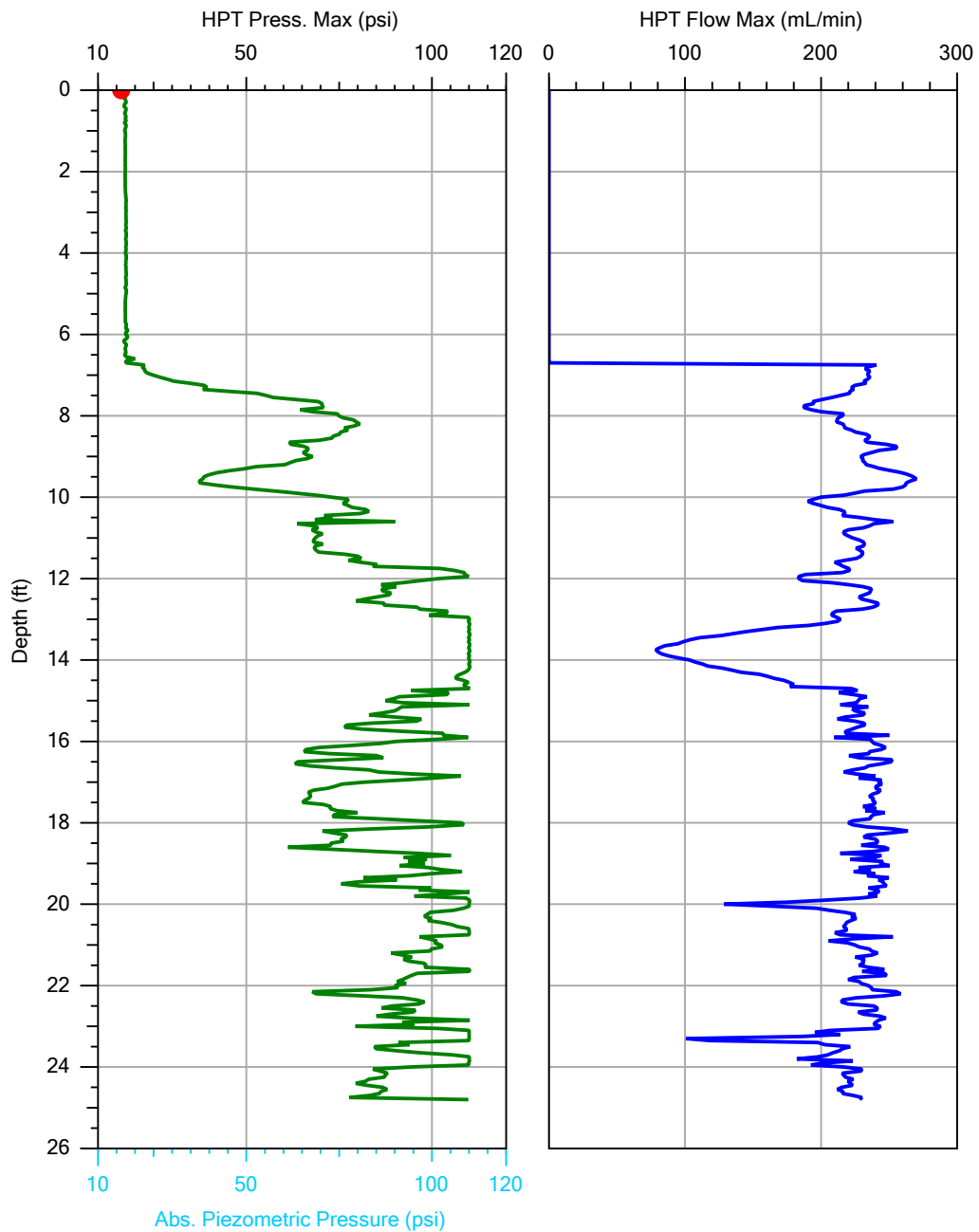
Abs. Piezometric Pressure (psi)



Company: Cascade		Operator: C Terry	File: DS-MW-15.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/11/18
			Location: Test



Company: Cascade		Operator: C Terry	File: DS-MW-16.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/10/18
			Location:



Abs. Piezometric Pressure (psi)



Company: Cascade		Operator: C Terry	File: DS-MW-16.MHP
Project ID: OBG - Rensselaer		Client: OBG	Date: 10/10/18
			Location: Test



## Appendix B

### Soil Boring Logs



# TEST BORING LOG

## BORING NO. SB-MW-12

PROJECT: Site Characterization Tim Bayly Property - Off-Site					SHEET 1 OF 1		
CLIENT: NYSDEC					JOB NO. 68940.002.016		
DRILLING CONTRACTOR: Cascade Technical Services					MEAS. PT. ELEV. Not Applicable		
PURPOSE: Direct-Push Subsurface Soil Boring					GROUND ELEV. 47.1'		
DRILLING METHOD: Direct-Push (Slide Hammer)			SAMPLE	CORE	CASING	DATUM Ground Surface	
DRILL RIG TYPE: Not Applicable			TYPE	Macrocore	NA	NA	DATE STARTED 10/16/2018
GROUND WATER DEPTH: Dry			DIA.	1"	NA	NA	DATE FINISHED 10/16/2018
MEASURING POINT Ground Surface			WEIGHT	NA			DRILLER Zack Fordley
DATE OF MEASUREMENT: 10/16/2018			FALL	NA			INSPECTOR Robert Hornung

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration/ Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
8.0					Advance boring through the overburden with air knife and utili-vac to 8.0' below ground surface (bgs). Overburden not logged.	
9.0	1	NA	2.0'/1.5'	SP	Brown to dark-brown coarse-medium-fine SAND, trace fine Gravel.	PPB Rae - 0.0 ppb Headspace PPB RAE - 0.0 ppb dry, loose, no odor Collect TCL/TAL Sample: SB-MW-12-8.0-9.0-101618
10.0		NA			(Fill) 10.0'	1255
11.0	2	NA	2.0'/1.3'	CL	Brown SILTY CLAY, seam of coarse-medium-fine Sand at 11.0'.	PPB Rae - 0.0 ppb Headspace PPB RAE - 0.0 ppb dry to moist, medium dense, no odor
12.0		NA			Light-brown SILTY CLAY.	
13.0	3	NA	2.0'/0.5'	CL		PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, medium dense, no odor Collect VOC Sample: SB-MW-12-12.4-12.5-101618
14.0		NA			(Glaciolacustrine Clay) 14.0'	1350
					End of boring at 14.0' bgs	



# TEST BORING LOG

## BORING NO. SB-MW-13

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 1 OF 4

CLIENT: NYSDEC

JOB NO. 68940.002.016

DRILLING CONTRACTOR: Cascade Technical Services

MEAS. PT. ELEV. Not Applicable

PURPOSE: Direct-Push Subsurface Soil Boring

GROUND ELEV. 46.9'

DRILLING METHOD: Direct-Push

SAMPLE

CORE

CASING

DATUM

Ground Surface

DRILL RIG TYPE: Geoprobe 7822DT

TYPE

Macrocore

NA

NA

DATE STARTED

10/16/2018

GROUND WATER DEPTH: ~14.0' bgs

DIA.

2"

NA

NA

DATE FINISHED

10/16/2018

MEASURING POINT Ground Surface

WEIGHT

NA

DRILLER

Zack Fordley

DATE OF MEASUREMENT: 10/16/2018

FALL

NA

INSPECTOR

Robert Hornung

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1.0  2.0  3.0	1	NA	4.0'/0.7'	SM	Asphalt patch 0.1'	PPB Rae - 0.0 ppb PPB Rae Headspace - 0.0 ppb moist, loose, no odor
		NA				
		NA				
		NA				
		NA				
		NA				
		NA				
4.0  5.0  6.0  7.0	2	NA	4.0'/2.1'	CL	Light-brown CLAYEY SILT, silt seams at 4.2', 4.7'-4.8', potential backfill material from hand clearing, appears to be native. 4.0'	PPB Rae - 0.0 ppb PPB Rae Headspace - 0.0 ppb moist, medium dense, no odor
		NA				
		NA				
		NA				
		NA				
		NA				
		NA				
8.0  9.0  10.0	3	NA	4.0'/2.3'	CL	Light-brown CLAYEY SILT. 8.4'	PPB Rae - 0.0 ppb PPB Rae Headspace - 0.0 ppb moist, loose to medium dense, no odor
		NA			Brown SILT, trace fine Sand, humic layer at 9.3' with roots and organics. (Fill) 9.3'	
		NA				
		NA				





# TEST BORING LOG

## BORING NO. SB-MW-13

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 2 OF 4

CLIENT: NYSDEC

JOB NO. 68940.002.016

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11.0	3	NA	4.0'/2.3'	CL	Brown to dark-brown SILTY CLAY. 10.3'	Collect TCL/TAL Sample: SB-MW-13-9.0-10.0-101618 0900 Collect X-1-101618
		NA			No recovery.	
		NA				
12.0		NA				
13.0	4	NA	4.0'/2.0'	CH	Dark-brown SILT, trace fine Sand. 12.4'	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist to wet, loose to medium dense, no odor
		NA			Light-brown CLAYEY SILT, mottled from 13.8'-14.0'.	
		NA				
14.0		NA				
		NA				
15.0		NA				
16.0	5	NA	4.0'/1.8'	SP	Light-brown CLAYEY SILT.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist, loose, no odor
17.0		NA				
		NA				
18.0		NA			Black coarse-medium-fine SAND, trace fine Gravel; Possible old asphalt debris or coal. 17.4'	
19.0		NA				
20.0	6	NA	4.0'/3.1'	CH	Brown SILT, trace fine Sand, trace fine Gravel.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor Collect VOC Sample: SB-MW-13-22.0-22.2-101618 1120
21.0		NA			Light-brown to brown CLAYEY SILT. 20.6'	
		NA				
22.0		NA			Brown to dark-brown CLAYEY SILT and SILTY CLAY, trace fine Sand. 21.6'	
		NA				



# TEST BORING LOG

BORING NO. SB-MW-13

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 3 OF 4

CLIENT: NYSDEC

JOB NO. 68940.002.016

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
24.0	6	NA	4.0'/3.1'	CH	Brown to dark-brown CLAYEY SILT and SILTY CLAY, trace fine Sand.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
25.0	7	NA	4.0'/4.0'	CH	Brown to dark-brown CLAYEY SILT.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist to wet, loose, no odor
		NA				
		NA				
26.0	7	NA	4.0'/4.0'	CH	Dark-brown SILT, little fine Gravel, trace fine Sand. Light-brown SILTY CLAY and CLAYEY SILT.	25.4' 25.7'
		NA				
27.0	7	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
28.0	8	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
29.0	8	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
30.0	8	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
31.0	8	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
32.0	9	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
33.0	9	NA	4.0'/4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb wet, loose, no odor
		NA				
34.0	9	NA	4.0'/4.0'	CH	Dark-brown SILTY CLAY.	34.0'
		NA				
35.0	9	NA	4.0'/4.0'	CH		





# TEST BORING LOG

BORING NO. SB-MW-14

PROJECT: Site Characterization Tim Bayly Property - Off-Site					SHEET 1 OF 3	
CLIENT: NYSDEC					JOB NO. 68940.002.016	
DRILLING CONTRACTOR: Cascade Technical Services					MEAS. PT. ELEV. Not Applicable	
PURPOSE: Direct-Push Subsurface Soil Boring					GROUND ELEV. 38.7'	
DRILLING METHOD: Direct-Push			SAMPLE	CORE	CASING	DATUM Ground Surface
DRILL RIG TYPE: Geoprobe 7822DT		TYPE	Macrocore	NA	NA	DATE STARTED 10/15/2018
GROUND WATER DEPTH: ~15.0' bgs		DIA.	2"	NA	NA	DATE FINISHED 10/15/2018
MEASURING POINT: Ground Surface		WEIGHT	NA			DRILLER Zack Fordley
DATE OF MEASUREMENT: 10/15/2018		FALL	NA			INSPECTOR Robert Hornung

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS		
1.0 2.0 3.0 4.0 5.0	1	NA	5.0'/1.9'	SM	Brown fine SAND and SILT, trace Clay, trace Roots.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, loose, no odor		
		NA		SP/GP	Brown to dark-brown coarse-medium-fine SAND, little medium-fine Gravel; backfill material from hand clearing.			
		NA						
		NA						
		NA						
		NA						
		NA						
		NA						
		NA						
		NA						
6.0 7.0 8.0 9.0 10.0	2	NA	5.0'/2.9'	SP/GP	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry to moist, loose to medium dense, no odor		
		NA						
		NA						
		NA						
		7.0 8.0 9.0 10.0		NA	CL		CL	Light-brown CLAYEY SILT.
								NA
								NA
								NA



# TEST BORING LOG

## BORING NO. SB-MW-14

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 2 OF 3

CLIENT: NYSDEC

JOB NO. 68940.002.016

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS		
11.0	3	NA	5.0'/ 3.3'	CL	Same as above. <span style="float: right;">10.2'</span>	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist to dry, medium dense, no odor Collect TCL/TAL Sample: SB-MW-14-10.0-13.0-101518 Collect MS/MSD for VOCs, TCL/TAL 1245		
		NA			CH		Light-brown CLAYEY SILT, little fine Sand.	
		NA						
12.0		NA		(Fill) <span style="float: right;">11.9'</span>				
		NA						
13.0		NA						
14.0		NA						
15.0		4		NA	4.0'/ 4.0'		CH	Light-brown CLAYEY SILT and SILTY CLAY, fine Sand seams at 15.5'-15.8' and 17.5'-17.6', trace fine Gravel from 15.5'-15.8', mottled. <span style="float: right;">15.0'</span>
16.0				NA				
	NA							
17.0	NA							
18.0	NA							
19.0	NA							
20.0	5	NA	4.0'/ 4.0'	CH	Light-brown CLAYEY SILT and SILTY CLAY, mottled. <span style="float: right;">19.0'</span>			
		NA						
		NA						
21.0		NA						
22.0		NA						





# TEST BORING LOG

BORING NO. SB-MW-15

PROJECT: Site Characterization Tim Bayly Property - Off-Site					SHEET 1 OF 3	
CLIENT: NYSDEC					JOB NO. 68940.002.016	
DRILLING CONTRACTOR: Cascade Technical Services					MEAS. PT. ELEV. Not Applicable	
PURPOSE: Direct-Push Subsurface Soil Boring					GROUND ELEV. 38.2'	
DRILLING METHOD: Direct-Push			SAMPLE	CORE	CASING	DATUM Ground Surface
DRILL RIG TYPE: Geoprobe 7822DT		TYPE	Macrocore	NA	NA	DATE STARTED 10/15/2018
GROUND WATER DEPTH: ~10.0' bgs		DIA.	2"	NA	NA	DATE FINISHED 10/15/2018
MEASURING POINT: Ground Surface		WEIGHT	NA			DRILLER Zack Fordley
DATE OF MEASUREMENT: 10/15/2018		FALL	NA			INSPECTOR Robert Hornung

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1.0	1	NA	4.0'/1.4'	SP	White to light-brown coarse-medium-fine SAND; backfill material from hand clearing.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, loose, no odor
		NA				
		NA				
2.0		NA				
		NA				
3.0		NA				
		NA				
4.0		NA				
5.0	2	NA	4.0'/2.0'	SP	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, loose, no odor
		NA				
		NA				
6.0		NA				
		NA				
7.0		NA				
8.0	3	NA	4.0'/2.0'	SP	Brown to dark-brown coarse-medium-fine SAND, brick debris.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, loose, no odor, wet at 10.0' bgs. Collect TCL/TAL Sample: SB-MW-15-9.0-10.0-101518 0830
		NA				
9.0		NA				
		NA				
10.0				CL/OL	Dark-brown CLAYEY SILT, some fine Sand, trace woody debris and roots at 9.7' bgs.	



# TEST BORING LOG

BORING NO. SB-MW-15

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 2 OF 3

CLIENT: NYSDEC

JOB NO. 68940.002.016

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
11.0	3	NA	4.0'/ 2.0'	---	No recovery.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb dry, loose, no odor, wet at 10.0' bgs.
		NA				
		NA				
12.0		NA				
					(Fill) 12.0'	
13.0	4	NA	4.0'/ 3.2'	CH	Light-brown SILTY CLAY, trace fine Sand from 12.4'-12.7'.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb  moist, medium dense to dense, no odor
		NA				
		NA				
14.0		NA				
		NA				
15.0		NA				
		NA				
16.0		NA				
					16.0'	
17.0	5	NA	4.0'/ 3.0'	CH	Light-brown SILTY CLAY.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist, medium dense to dense, no odor
		NA				
		NA				
18.0		NA				
		NA				
19.0		NA				
	NA					
20.0	6	NA	4.0'/ 4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist to wet, medium dense to dense, no odor Collect VOC Sample: SB-MW-15-20.9-21.1-101518 0940
		NA				
21.0		NA				
22.0		NA				





# TEST BORING LOG

BORING NO. SB-MW-15

PROJECT: Site Characterization Tim Bayly Property - Off-Site

SHEET 3 OF 3

CLIENT: NYSDEC

JOB NO. 68940.002.016

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
23.0	6	NA	4.0'/ 4.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0ppb moist to wet, medium dense to dense, no odor
		NA				
		NA				
24.0		NA				
25.0	7	NA	1.0'/ 1.0'	CH	Same as above.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0ppb moist to wet, medium dense, no odor
		NA				
					(Glaciolacustrine Clay) 25.0'	
					End of boring at 25.0' bgs.	



# TEST BORING LOG

BORING NO. SB-MW-16

PROJECT: Site Characterization Tim Bayly Property - Off-Site					SHEET 1 OF 2	
CLIENT: NYSDEC					JOB NO. 68940.002.016	
DRILLING CONTRACTOR: Cascade Technical Services					MEAS. PT. ELEV. Not Applicable	
PURPOSE: Direct-Push Subsurface Soil Boring					GROUND ELEV. 40.8'	
DRILLING METHOD: Direct-Push			SAMPLE	CORE	CASING	DATUM Ground Surface
DRILL RIG TYPE: Geoprobe 7822DT		TYPE	Macrocore	NA	NA	DATE STARTED 12/11/2018
GROUND WATER DEPTH: ~10.0' bgs		DIA.	2"	NA	NA	DATE FINISHED 12/11/2018
MEASURING POINT: Ground Surface		WEIGHT	NA			DRILLER Roger Buley
DATE OF MEASUREMENT: 12/11/2018		FALL	NA			INSPECTOR Robert Hornung

Depth Ft.	Sample Number	Blows on Sample Spoon per 6"	Penetration Recovery	Unified Classification	GEOLOGIC DESCRIPTION	REMARKS
1.0	1	NA	5.0'/1.3'	CL/ML	Brown to light-brown SILTY CLAY and CLAYEY SILT, trace fine Sand, roots and organics at 0.2'.	PPB Rae - 0.0 ppb Headspace PPB Rae - 0.0 ppb moist to wet, medium dense, no odor
1.5						
2.0						
2.5						
3.0						
3.5						
4.0						
4.5						
5.0						
5.0		2				
5.5						
6.0						
6.5						
7.0						
7.5						
8.0						
8.5						
9.0						
9.5						
10.0						





## Appendix C

### Well Completion Logs



# WELL COMPLETION LOG

Well ID: MW-12  
 Northing: 1389873.0  
 Easting: 696729.1

Site Name: Site Characterization Tim Bayly Property Off-Site

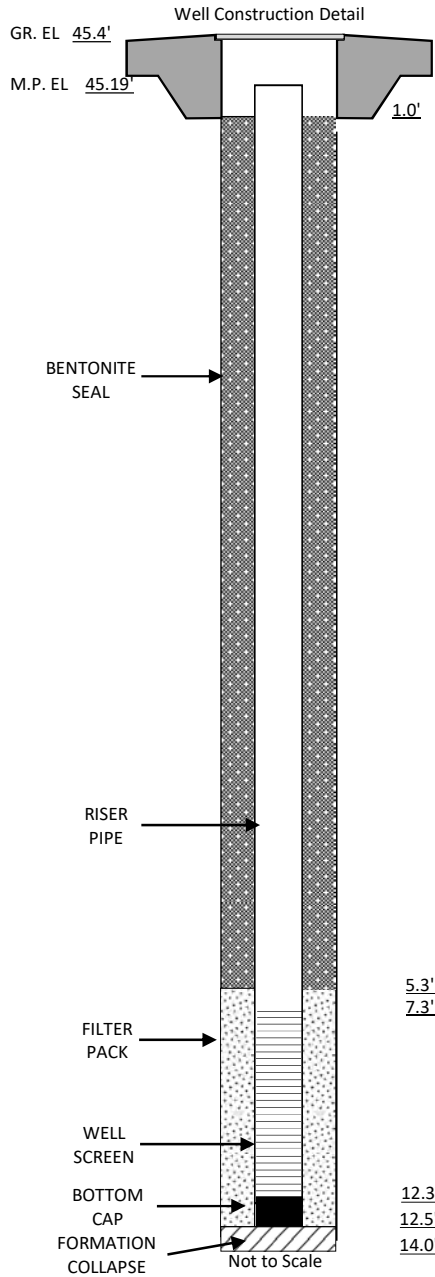
Client: NYSDEC

Date Drilled: 10/16/18

Site Location: Rensselaer, New York  
 Project #: 68940.002.016

Drilling Subcontractor: Cascade Technical Services  
 Installation Inspector: Robert Hornung

Date Installed: 10/16/18  
 Date Developed: Not Applicable



## INSPECTION NOTES

Type of Well: Overburden Monitoring Well  
 Static Water Level: 11.88 ft bmp  
 Measuring Point: PVC

### Borehole Advancement

**Overburden**  
 Method: Utili-Vac/Slide Diameter: Not Applicable/Not Applicable/3\_1/4"  
Hammer/Bucket Auger Diameter: OD  
 Casing: NA

### Sampling Method:

Type: Geoprobe Macrocore Diameter: 1" ID  
 Weight: NA Fall: NA  
 Interval: 8.0 to 14.0 ft bgs

### Bedrock

Method: NA Diameter: NA  
 Interval: NA to NA ft bgs

### Sampling Method:

Type: NA Diameter: NA  
 Interval: NA to NA ft bgs

### Well Construction

#### Riser Pipe

Material: Schedule 40 PVC Diameter: 1" I.D.  
 Interval: 0.2 to 7.3 ft bgs Joint: Flush

#### Screen:

Material: Schedule 40 PVC Diameter: 1" I.D.  
 Slot Size: 0.010" Joint: Flush  
 Interval: 7.3' to 12.3' ft bgs

#### Sump:

Material: NA Diameter: NA  
 Interval: NA to NA ft bgs Joint: NA

#### Filter Pack:

Type: Sand Grade: Morie #0  
 Interval: 5.3 to 12.5 ft bgs

#### Seal(s):

Type: Bentonite Seal Interval: 1.0 to 5.3 ft bgs  
 Type:                      Interval:            to            ft bgs  
 Type:                      Interval:            to            ft bgs  
 Type:                      Interval:            to            ft bgs

#### Surface Completion:

Type: Concrete well pad with flush mount well cover and locking cap

ft bgs - Feet Below Ground Surface GR. - Ground M.P. - Measuring Point  
 ft bmp - Feet Below Measuring Point PVC - Polyvinyl Chloride NA - Not Applicable  
 EL. - Elevation I.D. - Inside Diameter O.D. - Outside Diameter

### Additional Notes:

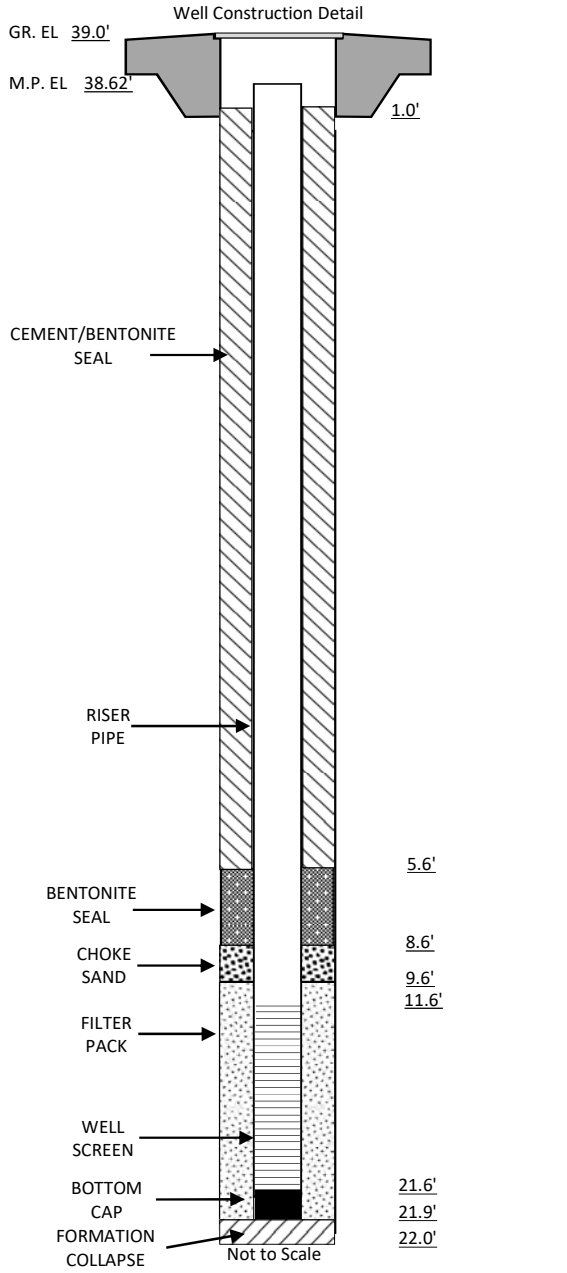
- Elevations in feet referenced to North American Vertical Datum of 1988.
- Northing and Easting coordinates referenced to New York State Plane Coordinate System North American Datum of 1983 East Zone.



# WELL COMPLETION LOG

Well ID: MW-14  
 Northing: 1390097.0  
 Easting: 696670.3

Site Characterization Tim  
 Site Name: Bayly Property Off-Site Client: NYSDEC Date Drilled: 12/12/18  
 Site Location: Rensselaer, New York Drilling Subcontractor: Cascade Technical Services Date Installed: 12/12/18  
 Project #: 68940.002.016 Installation Inspector: Robert Hornung Date Developed: 12/13/18 - 12/14/18



## INSPECTION NOTES

Type of Well: Overburden Monitoring Well  
 Static Water Level: 11.79 ft bmp  
 Measuring Point: PVC  
**Borehole Advancement**  
*Overburden*  
 Method: Utili-Vac/Direct-Push Diameter: Not Applicable/  
 Casing: NA 2 1/4" OD

**Sampling Method:**  
 Type: Geoprobe Macrocore Diameter: 2" ID  
 Weight: NA Fall: NA  
 Interval: 0.0 to 25.0 ft bgs

*Bedrock*  
 Method: NA Diameter: NA  
 Interval: NA to NA ft bgs  
**Sampling Method:**  
 Type: NA Diameter: NA  
 Interval: NA to NA ft bgs

**Well Construction**  
*Riser Pipe:*  
 Material: Schedule 40 PVC Diameter: 2" I.D.  
 Interval: 0.4 to 11.6 ft bgs Joint: Flush  
*Screen:*  
 Material: Schedule 40 PVC Diameter: 2" I.D.  
 Slot Size: 0.010" Joint: Flush  
 Interval: 11.6' to 21.6' ft bgs  
*Sump:*  
 Material: NA Diameter: NA  
 Interval: NA to NA ft bgs Joint: NA  
*Filter Pack:*  
 Type: Sand Grade: Morie #0  
 Interval: 9.6 to 21.9 ft bgs  
*Choke Sand:* Grade: Morie #00 Interval: 8.6 to 9.6 ft bgs

*Seal(s):*  
 Type: Bentonite Seal Interval: 5.6 to 8.6 ft bgs  
 Type: Cement/Bentonite Seal Interval: 1.0 to 5.6 ft bgs  
 Type: Interval: to ft bgs  
 Type: Interval: to ft bgs  
*Surface Completion:*  
 Type: Concrete well pad with flush mount well cover and locking cap

ft bgs - Feet Below Ground Surface GR. - Ground M.P. - Measuring Point  
 ft bmp - Feet Below Measuring Point PVC - Polyvinyl Chloride NA - Not Applicable  
 EL. - Elevation I.D. - Inside Diameter O.D. - Outside Diameter

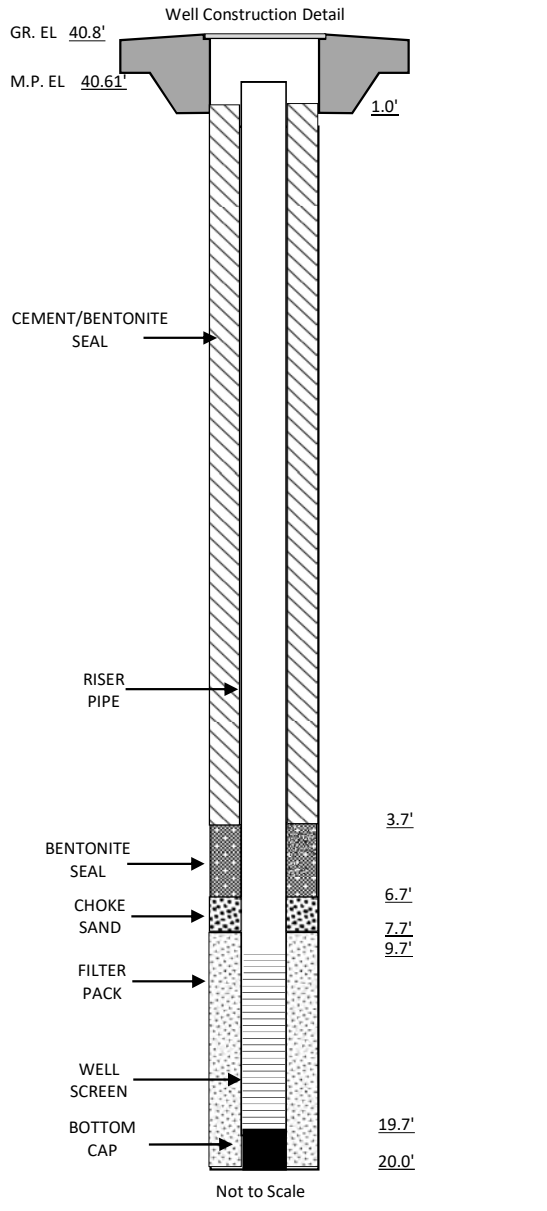
- Additional Notes:
- Elevations in feet referenced to North American Vertical Datum of 1988.
  - Northing and Easting coordinates referenced to New York State Plane Coordinate System North American Datum of 1983 East Zone.
  - Sample collection performed at co-located soil boring SB-MW-14.



# WELL COMPLETION LOG

Well ID: MW-16  
 Northing: 1390012.6  
 Easting: 696825.4

Site Characterization Tim  
 Site Name: Bayly Property Off-Site Client: NYSDEC Date Drilled: 12/11/18  
 Site Location: Rensselaer, New York Drilling Subcontractor: Cascade Technical Services Date Installed: 12/11/18  
 Project #: 68940.002.016 Installation Inspector: Robert Hornung Date Developed: 12/13/18



**INSPECTION NOTES**

Type of Well: Overburden Monitoring Well  
 Static Water Level: 3.52 ft bmp  
 Measuring Point: PVC

**Borehole Advancement**

*Overburden*

Method: Utili-Vac/Direct-Push Diameter: 4" OD  
 Casing: NA

Sampling Method:  
 Type: Geoprobe Macrocore Diameter: 2" ID  
 Weight: NA Fall: NA  
 Interval: 0.0 to 20.0 ft bgs

*Bedrock*

Method: NA Diameter: NA  
 Interval: NA to NA ft bgs

Sampling Method:  
 Type: NA Diameter: NA  
 Interval: NA to NA ft bgs

**Well Construction**

*Riser Pipe:*  
 Material: Schedule 40 PVC Diameter: 2" I.D.  
 Interval: 0.2 to 9.7 ft bgs Joint: Flush

*Screen:*  
 Material: Schedule 40 PVC Diameter: 2" I.D.  
 Slot Size: 0.010" Joint: Flush  
 Interval: 9.7' to 19.7' ft bgs

*Sump:*  
 Material: NA Diameter: NA  
 Interval: NA to NA ft bgs Joint: NA

*Filter Pack:*  
 Type: Sand Grade: Morie #0  
 Interval: 7.7 to 20.0 ft bgs

*Choke Sand:* Grade: Morie #00 Interval: 6.7 to 7.7 ft bgs

*Seal(s):*  
 Type: Bentonite Seal Interval: 3.7 to 6.7 ft bgs  
 Type: Cement/Bentonite Seal Interval: 1.0 to 3.7 ft bgs  
 Type: Interval: to ft bgs  
 Type: Interval: to ft bgs

*Surface Completion:*  
 Type: Concrete well pad with flush mount well cover and locking cap

ft bgs - Feet Below Ground Surface GR. - Ground M.P. - Measuring Point  
 ft bmp - Feet Below Measuring Point PVC - Polyvinyl Chloride NA - Not Applicable  
 EL. - Elevation I.D. - Inside Diameter O.D. - Outside Diameter

**Additional Notes:**

- Elevations in feet referenced to North American Vertical Datum of 1988.
- Northing and Easting coordinates referenced to New York State Plane Coordinate System North American Datum of 1983 East Zone.



## Appendix D

### Well Development Logs





### GROUNDWATER DEVELOPMENT LOG

Date 12/13/18 Personnel R. Harney Weather +20's, Snow showers  
 Site Name NYSDEC Tim Bayly Site Evacuation Method Wet/dry Tubing Bailers Well # MW-2  
 Site Location Rensselaer, NY Equipment Used Lamotte 2020wale Turbidity Mtl Project # 68940.002.016  
Ysi Pro Plus Quatro 4M WQ Meter

**Well information:**

Depth of Well \* 18.00 ft. \* Measurements taken from  
 Initial Depth to Water \* 11.90 ft.  Top of Well Casing  
 Final Depth to Water\* 17.12 ft.  Top of Protective Casing  
 Length of Water Column 6.10 ft.  (Other, Specify)

1" diameter wells = 0.041 x (LWC) = — gallons  
 2" diameter wells = 0.163 x (LWC) = 0.99 gallons  
 4" diameter wells = 0.653 x (LWC) = — gallons

**Well Evacuation Data:**

	Well Volumes						
	0	1	2	3	4	5	6
Start Time	1140	1147	1152	1159	1205	1210	1217
End Time	1144	1151	1157	1204	1209	1215	1222
Volumes Removed	—	1	2	3	4	5	6
Temperature (°C)	6.8	11.2	13.3	11.8	12.7	12.1	10.3
pH	7.63	7.46	7.45	7.52	7.40	7.47	7.58
Specific Conductivity (mS/cm)	2.81	2.26	2.25	2.24	2.24	2.24	2.23
Turbidity (NTU)	95.6	87.0	41.0	47.4	36.9	27.2	27.8

Appearance at start: Clear, low turbidity, no odor  
 Appearance at end: Clear, low turbidity, no odor  
 Other Observations: —

Amount of water removed: ~ 8.0 gallons

**NOTES:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



### GROUNDWATER DEVELOPMENT LOG

Date 12/13/18 Personnel R. Hamung Weather ±20° Snow Showers  
 Site Name Bayly Site Evacuation Method Water in Bailer Tubing Well # MW-2  
 Site Location Rensselaer, NY Equipment Used Lanette 2020me Turbidity Meter Project # 68940.002.016  
151 Pupils Quatro 4M WQ Meter

**Well information:**

Depth of Well \* 18.00 ft. \* Measurements taken from  Top of Well Casing  
 Initial Depth to Water \* 11.90 ft.  Top of Protective Casing  
 Final Depth to Water\* 17.12 ft.  (Other, Specify)  
 Length of Water Column 6.10 ft.

1" diameter wells = 0.041 x (LWC) = — gallons  
 2" diameter wells = 0.163 x (LWC) = 0.99 gallons  
 4" diameter wells = 0.653 x (LWC) = — gallons

**Well Evacuation Data:**

	Well Volumes					
	17	28	29	410	5	6
Start Time	1245	1256				
End Time	1251	1305				
Volumes Removed	7	8				
Temperature (°C)	12.0	10.4				
pH	7.94	7.80				
Specific Conductivity (mS/cm)	2.10	2.12				
Turbidity (NTU)	25.7	49.9				

Appearance at start: Clear, low turbidity, no odor  
 Appearance at end: Clear, low turbidity, no odor

Other Observations: —

Amount of water removed: ~ 8.0 gallons

NOTES: DTW=17.20' bwp 1256. Well near dry. DTW=17.20' bwp 1358  
DTW=17.70' bwp 1313. Well near dry. DTW=17.12' bwp 1405  
DTW=17.44' bwp 1338. Well near dry.



### GROUNDWATER DEVELOPMENT LOG

Date 12/13/18 and 12/14/18 Personnel R. Hornung Weather ±20's, cloudy, snow  
 Site Name Bayly Site Evacuation Method Bailer, <sup>Water</sup>tubing Well # MW-14  
 Site Location Rensselaer, NY Equipment Used Lanette 2020XL turbidity meter Project # 68940.002.016  
Yst Pro Plus Quatro 4M wa meter

Shams

#### Well information:

Depth of Well \* 21.85 ft. \* Measurements taken from  
 Initial Depth to Water \* 21.10 ft.  Top of Well Casing  
 Final Depth to Water\* 21.54 ft.  Top of Protective Casing  
 Length of Water Column 0.75 ft.  (Other, Specify)

1" diameter wells = 0.041 x (LWC) = — gallons  
 2" diameter wells = 0.163 x (LWC) = 0.12 gallons  
 4" diameter wells = 0.653 x (LWC) = — gallons

#### Well Evacuation Data:

	Well Volumes						
	0	1	2				
Start Time	1125	1131	0807				
End Time	1127	1445	0809				
Volumes Removed	—	1	2				
Temperature (°C)	8.2	7.9	11.6				
pH	7.51	7.77	7.26				
Specific Conductivity (mS/cm)	4.64	4.84	2.60				
Turbidity (NTU)	756	633	634				

Appearance at start: Clear to light brown, low turbidity, no odor  
 Appearance at end: light brown, moderate turbidity, no odor  
 Other Observations: —

Amount of water removed: ~ 0.35 gallons

NOTES: 12/13/18 - 1135 - DTW = 21.55' bwp. Not enough water in well to remove additional volume in bail - let well recharge  
1430 - DTW = 21.10' bwp.

12/14/18 - 0805 - DTW = 20.40' bwp. 0850 - DTW = 21.58' bwp. 0900 - DTW = 21.54' bwp  
Not enough water in well to remove additional volume



## GROUNDWATER DEVELOPMENT LOG

Date	<u>12/13/18</u>	Personnel	<u>R. Hornung</u>	Weather	<u>± 20's, Cloudy</u>
Site Name	<u>NYSDEC Tim Bayly Site</u>	Evacuation Method	<u>(20) 12/13/18 Underwater Bailer T-Chain</u>	Well #	<u>MW-16</u>
Site Location	<u>Rensselaer, NY</u>	Equipment Used	<u>Lamotte 2020 w/ turbidity Meter YSI ProPlus Quatro 4m WQ Meter</u>	Project #	<u>68940.002.016</u>

**Well information:**

Depth of Well *	<u>20.00</u>	ft.	* Measurements taken from	<input checked="" type="checkbox"/>	Top of Well Casing
Initial Depth to Water *	<u>3.52</u>	ft.		<input type="checkbox"/>	Top of Protective Casing
Final Depth to Water*	<u>19.54</u>	ft.		<input type="checkbox"/>	(Other, Specify)
Length of Water Column	<u>16.48</u>	ft.			

1" diameter wells = 0.041 x (LWC) = — gallons  
 2" diameter wells = 0.163 x (LWC) = 2.69 gallons  
 4" diameter wells = 0.653 x (LWC) = — gallons

**Well Evacuation Data:**

	Well Volumes				
	0	1	2	3	
Start Time	0845	0846	0855	1003	
End Time	0846	0852	1001	1106	
Volumes Removed	—	1	2	3	
Temperature (°C)	9.7	9.8	8.3	8.7	
pH	7.05	7.28	7.58	7.61	
Specific Conductivity (mS/cm)	1.25	1.24	0.96	0.92	
Turbidity (NTU)	29.7	Average	3,660	Average	

Appearance at start: Clear, no odor, low turbidity  
 Appearance at end: Brown, no odor, high turbidity

Other Observations: —

Amount of water removed: ~ 8.0 gallons

NOTES: 0900 - Well dry. Remove 1.5 well volumes. 0955 - DTW = 18.05' bwp\*  
0920 - DTW = 18.18' bwp\* 1012 - DTW = 18.90' bwp\*  
0930 - DTW = 18.50' bwp\* 1028 - DTW = 18.27' bwp\*  
\* Depth to water measurements collected while purging. 1049 - DTW = 18.89' bwp\*  
1001 - Pump well dry. Remove 2 well volumes. (20) 12/13/18



## Appendix E

### Groundwater Sampling Logs



# Low Flow Groundwater Sampling Log

Well ID: MW-2  
 Northing: \_\_\_\_\_  
 Easting: \_\_\_\_\_

Site Name: Tim Bayly Site  
 Site Location: Rensselaer, NY  
 Project #: 68940.002.016

Sampling Method: Bladder Pump  
 Equipment Used: QED Bladder Pump  
 Pump/Controller ID#: FA033

Field Personnel: AJT  
 Date: 1/9/19  
 Weather: Windy, 38°F

**Well information:**  
 Installed Depth of Well\*: 18 ft. bmp.  
 Measured Depth of Well\*: 17.69 ft. bmp.  
 Depth to Water\*: 11.93 ft. bmp.  
 Length of Water Column (LWC): 5.76 ft.  
 Well Diameter: 2.0 in.

**Well Volume Multipliers:**  
 1 in. = 0.041 gal/ft  
 2 in. = 0.163 gal/ft  
 4 in. = 0.653 gal/ft  
 6 in. = 1.469 gal/ft  
 8 in. = 2.611 gal/ft

\* Measurement Point: Top of Well Casing  
 Other: \_\_\_\_\_ gal.  
 Pump Intake Depth\*: 15.5 ft. bmp.

Start Purge Time: 1425  
 Initial Observations: Color Clear Odor No Sheen/Free Product No

Select Units from Dropdown Menus

Elapsed Time Minutes	Depth to Water ft bmp	Temperature Fahrenheit	pH SU	Specific Conductivity mS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate ml/min	Other TIME
5	12.44	12.99	7.45	2.30	105.2	4.22	29.6	200	1430
10	12.62	12.87	7.47	2.28	72.8	4.39	20.16	200	1435
15	12.75	12.00	7.49	2.31	60.0	4.55	16.5	100-200	1440
20	12.88	11.81	7.51	2.28	54.9	4.44	14.2	100	1445
25	12.94	11.77	7.53	2.31	52.1	4.76	11.4	100	1450
30	13.01	11.66	7.54	2.31	50.1	4.81	10.29	100	1455
35	13.18	11.72	7.55	2.31	49.1	4.79	8.24	100	1500

Stabilization  $\Delta \leq 0.3'$   $\pm 3\%$   $\pm 0.1$   $\pm 3\%$   $\pm 10$  mV  $\pm 10\%$   $\pm 10\%$   $200 \leq X \leq 500$

End Purge Time: 1503 DO Titration: \_\_\_\_\_ mg/L  
 Total volume of groundwater purged: 2.5 gal.  
 Final Observations: Color Clear Odor No Sheen/Free Product No  
 Specific Gravity \_\_\_\_\_

Analytical Sample ID: MW-2-010919\*\* Date: 1/9/19 Time: 1510

Container Size	Container Type	# Collected	Field Filtered?	Preservative	Laboratory
40 mL	Glass VOA	1	NO	HCl	TA
250 mL	Plastic	3	NO	HNO3	TA
250 mL	Plastic	3	NO	NaOH	TA
250 mL	Plastic	6	NO	None	TA
250 mL	Amber Glass	18	NO	None	TA
1 L	Amber Glass	3	NO	None	TA

Notes: \* VOCs @ (PPB Rae) 0.0 ppb @ start of purge  
\*\* MS/MSD collected



Measured Depth of Well: 21.20 ft bmp Well Diameter: 2"  
 Depth to Water: 11.79' bmp MP: well casing  
 Pump Intake: ~16.20' bmp (start)



Low Flow Groundwater Sampling Log

Well ID: MW-14

Site Name: Tim Bayly Site Project #: 68940.002.016 Field Personnel: SET, AJF Date: 1/10/19

1122: Start Purge

Select Units from Dropdown Menus

Elapsed Time Minutes	Depth to Water (ft bmp)	Temperature Celsius	pH (S.U.)	Specific Conductivity mS/cm	ORP mV	Dissolved Oxygen mg/L	Turbidity NTU	Flow Rate mL/min	Other
Initial Observations: Cloudy, No odor, No sheen/Free product									
5	12.85	10.40	7.19	5.60	110.70	8.00	47.2	200	
10	13.99 *	—	—	—	—	—	36.9	200	
15	14.50	9.83	7.34	5.70	19.20	9.37	41.9	200	
20	14.72	8.85	7.45	5.70	5.90	9.50	44.1	200	
25	15.25	8.27	7.51	5.70	14.00	9.69	41.3	100	
30	15.63	8.41	7.57	5.70	36.10	9.62	40.4	100	
35	16.03	8.93	7.61	5.80	42.40	9.75	35.7	100	
40	16.48	9.27	7.65	5.70	45.30	9.62	32.9	100	
45	17.05	9.22	7.66	5.80	46.90	9.50	25.1	100	
50	17.40	9.20	7.65	5.80	48.80	9.25	23.2	100	

1215: End purge  
 2-3 gallons purged.

Final Observations: Clear, No odor, No sheen/Free Product

Sample ID: MW-14-011019

\*\* Sample Time: 1230

\*\* Pumps had to be lowered during the course of sampling to retrieve enough water to fill bottles

Stabilization Δ ≤ 0.3' ± 3% ± 0.1 ± 3% ± 10 mV ± 10% ± 10% 100 ≤ X ≤ 500

Notes: - PPB Rae @ 0.0 ppm @ start of purge @ purge water background (potentially due to Amtrak trains/busy road) @ 100 ppb

\* unhooked to collect first round of VOCs

Sample: MW-14-011019 @ 1230







## Appendix F

### Soil Vapor Sampling Logs





### Soil Vapor Point Sampling Form

Project #	<u>68940.002.016</u>	Date	<u>01/03/19</u>
Project Name	<u>NYSDDEC - Remedial Investigation/Feasibility Study Tim Bayly Property - Off-Site</u>	Collector	<u>RW/AF</u>
Sample Location	<u>SV-12</u>	Canister Record	<u>3460</u>
		Canister ID	<u>3222</u>
		Flow Controller ID	<u>2-Hour</u>
		Sample Duration	

Sample ID	<u>SV-12-010319</u>		
Sample point installation date/time	<u>12-11-18 / 1350</u>	Gauge prior to start	<u>2" Hg</u>
Sample start date/time	<u>01-03-19 / 1224</u>	Start pressure ("Hg)	<u>-29.9" Hg</u>
Sample end date/time	<u>01-03-19 / 1424</u>	End pressure ("Hg)	<u>-11.0" Hg</u>

Outside weather conditions:

Air temperature (°F)	<u>42-37</u>	Rainfall	<u>None</u>	Wind direction	<u>NNE</u>
Barometric pressure	<u>29.92-29.94" Hg</u>	Relative humidity	<u>40.3%</u>	Wind speed	<u>~10 mph (Average)</u>

Substantial changes in weather conditions during sample point installation, sampling, or over the past 24 to 48 hours.

None

Tubing type used	<u>polyethylene</u>	Tracer gas used	<u>Helium</u>
Ft. tubing used	<u>12.5'</u>	Chamber tracer gas concentration (%)	<u>50%</u>
Purge volume	<u>2.00 cc</u>	Sample tracer gas concentration (%)	<u>0%</u>
Sample depth	<u>9.0'-9.5'</u>		

Comments:

PPB Raw Background - 0ppb

PPB Raw Sample tubing - 0ppb

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analytical method required	<u>TCL VOCs USEPA Method TO-15</u>
Laboratory used	<u>TestAmerica</u>



### Soil Vapor Point Sampling Form

Project # 68940.002.016  
 Project Name NYSDEC - Remedial Investigation/Feasibility Study  
Tim Bayly Property - Off-Site

Date 01/03/19  
 Collector RH/AF

Sample Location  
SV-14

Canister Record  
 Canister ID 2522 / 4085  
 Flow Controller ID 0156AF / 3132 / 5193  
 Sample Duration 2-Hour

Sample ID SV-14-010319, X-1-010319  
 Sample point installation date/time 12-12-18 / 1145  
 Sample start date/time 01-03-19 / 1214  
 Sample end date/time 01-03-19 / 1454

Gauge prior to start 0" Hg / 0" Hg  
 Start pressure ("Hg) -29.9  
 End pressure ("Hg) -10.0 / -8.0

Outside weather conditions:

Air temperature (°F) 42-37 Rainfall None Wind direction NNE  
 Barometric pressure 29.92-29.94" Hg Relative humidity 40.3% Wind speed ~10mph (Average)  
 Substantial changes in weather conditions during sample point installation, sampling, or over the past 24 to 48 hours. None

Tubing type used polyethylene  
 Ft. tubing used 13.5'  
 Purge volume 200cc  
 Sample depth 9.5'-10.0'

Tracer gas used Helium  
 Chamber tracer gas concentration (%) 50%  
 Sample tracer gas concentration (%) 1%

Comments: PPB Rae Background - 0 ppb  
PPB Rae Sample tubing - 0 ppb  
1300 - Perform digital pressure gauge check. Both summa canisters running slow than anticipated. Both canisters at -27" Hg. Possibly due to minimal amount of moisture in sample tubing, flow controller, temp, or tight formation.

Analytical method required TCL VOCs USEPA Method TO-15  
 Laboratory used TestAmerica



### Multiple Vapor Intrusion Sampling Form

Project # 68940.002.016  
 NYSDEC - Remedial  
 Investigation/Feasibility Study  
 Project Name Tim Bayly Property - Off-Site

Date 01-03-19  
 Collector RH/AF

Structure Location  
Not Applicable  
 PID/FID meter ID 594-903955  
 Sample Duration (Intended) 2-hr

Sample Locations  
Ambient Air

Indoor Air Sample	Indoor Air Sample	Circle Sample Type: <u>Indoor Air</u> SS-DUP <u>Ambient</u> IA-DUP
Sample ID _____	Sample ID _____	Sample ID <u>AA-010319</u>
Canister ID _____	Canister ID _____	Canister ID <u>5702</u>
Flow Controller ID _____	Flow Controller ID _____	Flow Controller ID <u>3979</u>
Date/Time start _____	Date/Time start _____	Date/Time start <u>01/03/19 1153</u>
Date/Time end _____	Date/Time end _____	Date/Time end <u>01/03/19 1353</u>
Gauge prior to start _____	Gauge prior to start _____	Gauge prior to start <u>0" Hg</u>
Start press. (Hg") _____	Start press. (Hg") _____	Start press. (Hg") <u>0" Hg - 30" Hg</u>
End press. (Hg") _____	End press. (Hg") _____	End press. (Hg") <u>-3" Hg</u>
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F) _____	Air temperature (°F) _____	Air temperature (°F) <u>40°F</u>
PID/FID reading (ppb) _____	PID/FID reading (ppb) _____	PID/FID reading (ppb) <u>0ppb</u>
in. tubing used _____	in. tubing used _____	in. tubing used <u>Not Applicable</u>
Tubing purged? _____	Tubing purged? _____	Tubing purged? <u>Not Applicable</u>
<u>For indoor location:</u>	<u>For indoor location:</u>	<u>For outdoor location:</u>
Noticeable odor _____	Noticeable odor _____	Noticeable odor <u>None</u>
Intake height above floor (in) _____	Floor slab depth _____	distance to road <u>109.5'</u>
Floor surface type _____	Intake height above floor (in) _____	Intake height above ground level (in) <u>34"</u>
Room _____	Floor surface type _____	distance to closest building (degrees) <u>65° NE</u>
Story/level _____	Room _____	distance to closest building (feet) <u>13.5'</u>
Story/level _____	Story/level _____	

Building Survey / Chemical Inventory Form Completed? NA / No  
 Photographs Taken? Yes

Comments: Humidity 40.3%

Analytical method required TCL VOCs USEPA Method TO-15  
 Laboratory used TestAmerica



## Appendix G

### Vapor Intrusion Sampling Logs



Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016

Date 03-11-19 - 03-12-19

NYSDEC - Remedial Investigation/Feasibility Study

Project Name Tim Bayly Property - Off-Site

Collector RDH, SET

Structure Location

810 Broadway

Sample Locations

810B-SS01

PID/FID meter ID SN: 594-902180

810B-IA-01 ~~01~~ IA-01

Sample Duration (Intended) 24-hr

Indoor Air Sample		Indoor Air Sample		Circle Sample Type: Indoor Air	
Sample ID	Canister ID	Sample ID	Canister ID	SS-DUP	Ambient
810B-SS01-031119-031219	2879	810B-IA-01-031119-031219	4362		IA-DUP
Flow Controller ID 3840	Flow Controller ID 3489	Flow Controller ID	Flow Controller ID	Sample ID	Canister ID
Date/Time start 03-11-19 / 1043	Date/Time start 03-11-19 / 1052	Date/Time start	Date/Time start	Flow Controller ID	Flow Controller ID
Date/Time end 03-12-19 / 1043	Date/Time end 03-12-19 / 0933	Date/Time end	Date/Time end	Date/Time start	Date/Time start
Gauge prior to start 1	Gauge prior to start 1	Gauge prior to start	Gauge prior to start	Date/Time end	Date/Time end
Start press. (Hg") -29.6	Start press. (Hg") -29.9	Start press. (Hg")	Start press. (Hg")	Gauge prior to start	Gauge prior to start
End press. (Hg") -4.0	End press. (Hg") -4.0	End press. (Hg")	End press. (Hg")	Start press. (Hg")	Start press. (Hg")
End press. (Hg")	End press. (Hg")	End press. (Hg")	End press. (Hg")	End press. (Hg")	End press. (Hg")
Complete all that apply:		Complete all that apply:		Complete all that apply:	
Air temperature (°F) 58°	Air temperature (°F) 58°	Air temperature (°F)	Air temperature (°F)	Air temperature (°F)	Air temperature (°F)
PID/FID reading (ppb) 0	PID/FID reading (ppb) 0	PID/FID reading (ppb)	PID/FID reading (ppb)	PID/FID reading (ppb)	PID/FID reading (ppb)
in. tubing used 60	in. tubing used NA	in. tubing used	in. tubing used	in. tubing used	in. tubing used
Tubing purged? 60ccs	Tubing purged? NA	Tubing purged?	Tubing purged?	Tubing purged?	Tubing purged?
For indoor location:		For indoor location:		For outdoor location:	
Noticeable odor none	Noticeable odor none	Noticeable odor	Noticeable odor	Noticeable odor	Noticeable odor
Intake height above floor (in) NA 7 inches	Intake Height 36	Intake height above floor (in)	Intake height above floor (in)	Intake height above ground level (in)	Intake height above ground level (in)
Floor slab depth type concrete	Floor slab depth type concrete	Floor slab depth type	Floor slab depth type	distance to closest building (degrees)	distance to closest building (degrees)
Room basement	Room basement	Room	Room	distance to closest building (feet)	distance to closest building (feet)
Story/level basement	Story/level basement	Story/level	Story/level		

Building Survey / Chemical Inventory Form Completed?

Yes / Yes

Photographs Taken?

Yes

Comments: Slab thickness = 7 inches

Helium % tubing = <1%

Digital Micro-Manometer = 0.000 - 0.001

Helium % chamber = 70%

Analytical method required

TCL VOCs USEPA Method TO-15

Laboratory used

TestAmerica





Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016
NYSDEC - Remedial Investigation/Feasibility Study
Project Name Tim Bayly Property - Off-Site

Date 08-11-19 - 03-12-19

Collector RDM SET

Structure Location

810 Broadway

Sample Locations

810B-IA-02

PID/FID meter ID SN: 594-902180

Sample Duration (Intended) 24-hr

Table with 3 columns for Indoor Air Sample data. Columns include Sample ID, Canister ID, Flow Controller ID, Date/Time start/end, Gauge prior to start, Start/End press. (Hg"), and location details (air temperature, PID/FID reading, tubing used, etc.).

Building Survey / Chemical Inventory Form Completed?

Yes / Yes

Photographs Taken?

Yes

Comments:

Analytical method required

TCL VOCs USEPA Method TO-15

Laboratory used

TestAmerica



Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016
NYSDEC - Remedial Investigation/Feasibility Study
Project Name Tim Bayly Property - Off-Site

Date 03-11-19 - 03-12-19
Collector RDH, SET

Structure Location 810 Broadway
PID/FID meter ID SN: 594-902180
Sample Duration (Intended) 24-hr

Sample Locations 810B-IA-03

Table with 3 columns for sample types: Indoor Air Sample, Indoor Air Sample, and Indoor Air. Includes fields for Sample ID, Canister ID, Date/Time, Gauge, Start/End press., Air temperature, PID/FID reading, and location details.

Building Survey / Chemical Inventory Form Completed? Yes / Yes
Photographs Taken? Yes

Comments:

Analytical method required TCL VOCs USEPA Method TO-15
Laboratory used TestAmerica



Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016

Date 03-11-19 - 03-12-19

NYSDEC - Remedial Investigation/Feasibility Study

Project Name Tim Bayly Property - Off-Site

Collector RDH, SET

Structure Location

810 Broadway

Sample Locations

810B-0A-01

PID/FID meter ID SN: 594-902180

Sample Duration (Intended) 24-hr

Indoor Air Sample	Indoor Air Sample	Circle Sample Type: Indoor Air SS-DUP <u>Ambient</u> IA-DUP
Sample ID	Sample ID	Sample ID 810B-0A-01-031119-031219
Canister ID	Canister ID	Canister ID 2660
Flow Controller ID	Flow Controller ID	Flow Controller ID 3022
Date/Time start /	Date/Time start /	Date/Time start 03-11-19 1150
Date/Time end /	Date/Time end /	Date/Time end 03-12-19 1150
Gauge prior to start	Gauge prior to start	Gauge prior to start -2
Start press. (Hg")	Start press. (Hg")	Start press. (Hg") -29.9
End press. (Hg")	End press. (Hg")	End press. (Hg") -2.0
Complete all that apply:	Complete all that apply:	Complete all that apply:
Air temperature (°F)	Air temperature (°F)	Air temperature (°F) 42 - 32
PID/FID reading (ppb)	PID/FID reading (ppb)	PID/FID reading (ppb) 0
in. tubing used	in. tubing used	in. tubing used NA
Tubing purged?	Tubing purged?	Tubing purged? NA
For indoor location:	For indoor location:	For outdoor location:
Noticeable odor	Noticeable odor	Noticeable odor None
Intake height above floor (in)	Floor slab depth	distance to road 104
Floor surface type	Intake height above floor (in)	Intake height above ground level (in) 36
Room	Floor surface type	distance to closest building (degrees) 225
Story/level	Room	distance to closest building (feet) 53.5
	Story/level	

Building Survey / Chemical Inventory Form Completed? Yes / Yes

Photographs Taken? Yes

Comments:

Analytical method required TCL VOCs USEPA Method TO-15  
Laboratory used TestAmerica



### Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016  
 NYSDEC - Remedial  
 Investigation/Feasibility Study  
 Project Name Tim Bayly Property - Off-Site

Date 04/09/19 - 04/10/19  
 Collector RA/JG

Structure Location  
810 Broadway  
 PID/FID meter ID \_\_\_\_\_  
 Sample Duration (Intended) 24-hr

Sample Locations  
810 Broadway Sub-basement

Indoor Air Sample		Indoor Air Sample		Circle Sample Type: <u>Indoor Air</u>		
Sample ID	Canister ID	Sample ID	Canister ID	SS-DUP	Ambient	IA-DUP
<u>8108-SS-03-01-040919-041019</u>	<u>4085</u>	<u>8108-SS-03-040919-041019</u>	<u>4121</u>			
Flow Controller ID <u>4739</u>	Flow Controller ID <u>3022</u>	Flow Controller ID _____	Flow Controller ID _____	Sample ID _____	Sample ID _____	Sample ID _____
Date/Time start <u>4-9-19/1220</u>	Date/Time start <u>4-9-19/1153</u>	Date/Time start _____	Date/Time start _____	Canister ID _____	Canister ID _____	Canister ID _____
Date/Time end <u>NA* / NA*</u>	Date/Time end <u>4-10-19/1100</u>	Date/Time end _____	Date/Time end _____	Flow Controller ID _____	Flow Controller ID _____	Flow Controller ID _____
Gauge prior to start <u>-1</u>	Gauge prior to start <u>-2</u>	Gauge prior to start _____	Gauge prior to start _____	Date/Time start _____	Date/Time start _____	Date/Time start _____
Start press. (Hg") <u>-29.7</u>	Start press. (Hg") <u>-29.7</u>	Start press. (Hg") _____	Start press. (Hg") _____	Date/Time end _____	Date/Time end _____	Date/Time end _____
End press. (Hg") <u>NA*</u>	End press. (Hg") <u>-2.4</u>	End press. (Hg") _____	End press. (Hg") _____	Gauge prior to start _____	Gauge prior to start _____	Gauge prior to start _____
Complete all that apply:		Complete all that apply:		Complete all that apply:		
Air temperature (°F) <u>60-65</u>	Air temperature (°F) <u>60-65</u>	Air temperature (°F) _____	Air temperature (°F) _____	Start press. (Hg") _____	Start press. (Hg") _____	Start press. (Hg") _____
PID/FID reading (ppb) <u>0 ppb</u>	PID/FID reading (ppb) <u>0 ppb</u>	PID/FID reading (ppb) _____	PID/FID reading (ppb) _____	End press. (Hg") _____	End press. (Hg") _____	End press. (Hg") _____
in. tubing used <u>36"</u>	in. tubing used <u>36"</u>	in. tubing used _____	in. tubing used _____	For indoor location:		
Tubing purged? <u>30cc</u>	Tubing purged? <u>30cc</u>	Tubing purged? _____	Tubing purged? _____	For outdoor location:		
Noticeable odor <u>None</u>	Noticeable odor <u>None</u>	Noticeable odor _____	Noticeable odor _____	distance to road _____	distance to road _____	distance to road _____
Intake height above floor (in) <u>3.5 inches</u>	Floor slab depth (in) <u>6 inches</u>	Intake height above floor (in) _____	Intake height above floor (in) <u>Not Applicable</u>	Intake height above ground level (in) _____	Intake height above ground level (in) _____	Intake height above ground level (in) _____
Floor surface type <u>Concrete</u>	Floor surface type <u>Concrete</u>	Floor surface type _____	Floor surface type _____	distance to closest building (degrees) _____	distance to closest building (degrees) _____	distance to closest building (degrees) _____
Room <u>Sub-Basement</u>	Room <u>Sub-Basement</u>	Room _____	Room _____	distance to closest building (feet) _____	distance to closest building (feet) _____	distance to closest building (feet) _____
Story/level <u>2nd</u>	Story/level <u>2nd</u>	Story/level _____	Story/level _____			

Building Survey / Chemical Inventory Form Completed? \_\_\_\_\_  
 Photographs Taken? \_\_\_\_\_

Yes / Yes: \_\_\_\_\_  
 Yes \_\_\_\_\_ (SS-03)

Comments: He Concentration Chamber: > 50% (SS-03) He Concentration Sample Tubing: 10.8%  
He Concentration Chamber: > 70% (SS-03-01) He Concentration Sample Tubing: 21% (SS-03-01)

Analytical method required TCL VOCs USEPA Method TO-15  
 Laboratory used TestAmerica

*A No Sample Collection could be performed. Canister contained no pressure.*



### Multiple Vapor Intrusion Sampling Form

Project # 68940.003.016  
 NYSDEC - Remedial  
 Investigation/Feasibility Study  
 Project Name Tim Bayly Property - Off-Site

Date 04/10/19 - 04/11/19  
 Collector RH/SET

Structure Location  
810 Broadway  
 PID/FID meter ID \_\_\_\_\_  
 Sample Duration (Intended) 24-hr

Sample Locations  
810 Broadway Sub-basement

Indoor Air Sample	Indoor Air Sample	Circle Sample Type: <u>Indoor Air</u>		
		SS-DUP	Ambient	IA-DUP
Sample ID _____	Sample ID <u>810B-SS-03-01-</u> <u>041019-041119</u>	Sample ID _____	Sample ID _____	Sample ID _____
Canister ID _____	Canister ID <u>4296</u>	Canister ID _____	Canister ID _____	Canister ID _____
Flow Controller ID _____	Flow Controller ID <u>3295</u>	Flow Controller ID _____	Flow Controller ID _____	Flow Controller ID _____
Date/Time start _____ / _____	Date/Time start <u>4-10-19 / 1102</u>	Date/Time start _____ / _____	Date/Time start _____ / _____	Date/Time start _____ / _____
Date/Time end _____ / _____	Date/Time end <u>4-11-19 / 0955</u>	Date/Time end _____ / _____	Date/Time end _____ / _____	Date/Time end _____ / _____
Gauge prior to start _____	Gauge prior to start <u>0</u>	Gauge prior to start _____	Gauge prior to start _____	Gauge prior to start _____
Start press. (Hg") _____	Start press. (Hg") <u>29.6</u>	Start press. (Hg") _____	Start press. (Hg") _____	Start press. (Hg") _____
End press. (Hg") _____	End press. (Hg") <u>-5.6</u>	End press. (Hg") _____	End press. (Hg") _____	End press. (Hg") _____
Complete all that apply:	Complete all that apply:	Complete all that apply:		
Air temperature (°F) _____	Air temperature (°F) <u>60-65</u>	Air temperature (°F) _____		
PID/FID reading (ppb) _____	PID/FID reading (ppb) <u>0</u>	PID/FID reading (ppb) _____		
in. tubing used _____	in. tubing used <u>36</u>	in. tubing used _____		
Tubing purged? _____	Tubing purged? <u>30CCs</u>	Tubing purged? _____		
<u>For indoor location:</u>	<u>For indoor location:</u>	<u>For outdoor location:</u>		
Noticeable odor _____	Noticeable odor <u>none</u>	Noticeable odor _____		
Intake height above floor (in) _____	Floor slab depth <u>3.5"</u>	distance to road intake height above ground level (in) _____		
Floor surface type _____	Intake height above floor (in) <u>NA</u>	distance to closest building (degrees) _____		
Room _____	Floor surface type <u>concrete</u>	distance to closest building (feet) _____		
Story/level _____	Room <u>Subbasement</u>			
	Story/level <u>2nd</u>			

Building Survey / Chemical Inventory Form Completed? Yes / Yes  
 Photographs Taken? Yes

Comments: The Concentration Chamber: >70%, The Concentration Sample Tubing: <1%

Analytical method required TCL VOCs USEPA Method TO-15  
 Laboratory used TestAmerica



## Appendix H

### Community Air Monitoring Program Data



### Downwind Dust Trak

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530151706  
Test ID: 1  
Test Abbreviation: Downwind\_100818  
Start Date: 10/8/2018  
Start Time: 9:31:33  
Duration (dd:hh:mm:ss): 0:07:33:00  
Log Interval (mm:ss): 1:00  
Number of points: 453  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.027  
Minimum: 0.010  
Time of Minimum: 16:34:33  
Date of Minimum: 10/8/2018  
Maximum: 0.531  
Time of Maximum: 9:46:33  
Date of Maximum: 10/8/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
10/8/2018	9:32:33	0.034
10/8/2018	9:33:33	0.032
10/8/2018	9:34:33	0.033
10/8/2018	9:35:33	0.033
10/8/2018	9:36:33	0.033
10/8/2018	9:37:33	0.032
10/8/2018	9:38:33	0.03
10/8/2018	9:39:33	0.031
10/8/2018	9:40:33	0.031
10/8/2018	9:41:33	0.029
10/8/2018	9:42:33	0.028
10/8/2018	9:43:33	0.027
10/8/2018	9:44:33	0.028
10/8/2018	9:45:33	0.048
10/8/2018	9:46:33	0.531
10/8/2018	9:47:33	0.068
10/8/2018	9:48:33	0.037
10/8/2018	9:49:33	0.033
10/8/2018	9:50:33	0.028
10/8/2018	9:51:33	0.058
10/8/2018	9:52:33	0.037



10/8/2018	9:53:33	0.073
10/8/2018	9:54:33	0.045
10/8/2018	9:55:33	0.036
10/8/2018	9:56:33	0.03
10/8/2018	9:57:33	0.027
10/8/2018	9:58:33	0.029
10/8/2018	9:59:33	0.027
10/8/2018	10:00:33	0.026
10/8/2018	10:01:33	0.036
10/8/2018	10:02:33	0.028
10/8/2018	10:03:33	0.027
10/8/2018	10:04:33	0.026
10/8/2018	10:05:33	0.027
10/8/2018	10:06:33	0.026
10/8/2018	10:07:33	0.027
10/8/2018	10:08:33	0.027
10/8/2018	10:09:33	0.027
10/8/2018	10:10:33	0.028
10/8/2018	10:11:33	0.027
10/8/2018	10:12:33	0.038
10/8/2018	10:13:33	0.067
10/8/2018	10:14:33	0.03
10/8/2018	10:15:33	0.051
10/8/2018	10:16:33	0.039
10/8/2018	10:17:33	0.029
10/8/2018	10:18:33	0.027
10/8/2018	10:19:33	0.028
10/8/2018	10:20:33	0.026
10/8/2018	10:21:33	0.026
10/8/2018	10:22:33	0.026
10/8/2018	10:23:33	0.027
10/8/2018	10:24:33	0.027
10/8/2018	10:25:33	0.026
10/8/2018	10:26:33	0.026
10/8/2018	10:27:33	0.025
10/8/2018	10:28:33	0.027
10/8/2018	10:29:33	0.024
10/8/2018	10:30:33	0.024
10/8/2018	10:31:33	0.024
10/8/2018	10:32:33	0.024
10/8/2018	10:33:33	0.024
10/8/2018	10:34:33	0.025
10/8/2018	10:35:33	0.025
10/8/2018	10:36:33	0.051
10/8/2018	10:37:33	0.063
10/8/2018	10:38:33	0.031
10/8/2018	10:39:33	0.023

10/8/2018	10:40:33	0.023
10/8/2018	10:41:33	0.023
10/8/2018	10:42:33	0.024
10/8/2018	10:43:33	0.023
10/8/2018	10:44:33	0.023
10/8/2018	10:45:33	0.023
10/8/2018	10:46:33	0.025
10/8/2018	10:47:33	0.045
10/8/2018	10:48:33	0.027
10/8/2018	10:49:33	0.023
10/8/2018	10:50:33	0.023
10/8/2018	10:51:33	0.024
10/8/2018	10:52:33	0.023
10/8/2018	10:53:33	0.023
10/8/2018	10:54:33	0.031
10/8/2018	10:55:33	0.026
10/8/2018	10:56:33	0.026
10/8/2018	10:57:33	0.302
10/8/2018	10:58:33	0.137
10/8/2018	10:59:33	0.027
10/8/2018	11:00:33	0.051
10/8/2018	11:01:33	0.043
10/8/2018	11:02:33	0.021
10/8/2018	11:03:33	0.023
10/8/2018	11:04:33	0.023
10/8/2018	11:05:33	0.023
10/8/2018	11:06:33	0.023
10/8/2018	11:07:33	0.022
10/8/2018	11:08:33	0.023
10/8/2018	11:09:33	0.022
10/8/2018	11:10:33	0.022
10/8/2018	11:11:33	0.022
10/8/2018	11:12:33	0.023
10/8/2018	11:13:33	0.024
10/8/2018	11:14:33	0.024
10/8/2018	11:15:33	0.024
10/8/2018	11:16:33	0.024
10/8/2018	11:17:33	0.024
10/8/2018	11:18:33	0.024
10/8/2018	11:19:33	0.023
10/8/2018	11:20:33	0.024
10/8/2018	11:21:33	0.024
10/8/2018	11:22:33	0.024
10/8/2018	11:23:33	0.023
10/8/2018	11:24:33	0.024
10/8/2018	11:25:33	0.025
10/8/2018	11:26:33	0.023

10/8/2018	11:27:33	0.023
10/8/2018	11:28:33	0.023
10/8/2018	11:29:33	0.023
10/8/2018	11:30:33	0.024
10/8/2018	11:31:33	0.023
10/8/2018	11:32:33	0.024
10/8/2018	11:33:33	0.025
10/8/2018	11:34:33	0.024
10/8/2018	11:35:33	0.024
10/8/2018	11:36:33	0.024
10/8/2018	11:37:33	0.025
10/8/2018	11:38:33	0.026
10/8/2018	11:39:33	0.026
10/8/2018	11:40:33	0.026
10/8/2018	11:41:33	0.026
10/8/2018	11:42:33	0.026
10/8/2018	11:43:33	0.025
10/8/2018	11:44:33	0.024
10/8/2018	11:45:33	0.024
10/8/2018	11:46:33	0.029
10/8/2018	11:47:33	0.026
10/8/2018	11:48:33	0.027
10/8/2018	11:49:33	0.023
10/8/2018	11:50:33	0.023
10/8/2018	11:51:33	0.023
10/8/2018	11:52:33	0.026
10/8/2018	11:53:33	0.031
10/8/2018	11:54:33	0.024
10/8/2018	11:55:33	0.023
10/8/2018	11:56:33	0.024
10/8/2018	11:57:33	0.023
10/8/2018	11:58:33	0.022
10/8/2018	11:59:33	0.023
10/8/2018	12:00:33	0.022
10/8/2018	12:01:33	0.022
10/8/2018	12:02:33	0.022
10/8/2018	12:03:33	0.021
10/8/2018	12:04:33	0.021
10/8/2018	12:05:33	0.021
10/8/2018	12:06:33	0.02
10/8/2018	12:07:33	0.022
10/8/2018	12:08:33	0.02
10/8/2018	12:09:33	0.02
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10/8/2018	12:13:33	0.022

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10/8/2018	12:17:33	0.022
10/8/2018	12:18:33	0.023
10/8/2018	12:19:33	0.022
10/8/2018	12:20:33	0.022
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10/8/2018	12:22:33	0.022
10/8/2018	12:23:33	0.022
10/8/2018	12:24:33	0.022
10/8/2018	12:25:33	0.022
10/8/2018	12:26:33	0.022
10/8/2018	12:27:33	0.022
10/8/2018	12:28:33	0.03
10/8/2018	12:29:33	0.028
10/8/2018	12:30:33	0.024
10/8/2018	12:31:33	0.024
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10/8/2018	12:33:33	0.023
10/8/2018	12:34:33	0.022
10/8/2018	12:35:33	0.023
10/8/2018	12:36:33	0.024
10/8/2018	12:37:33	0.023
10/8/2018	12:38:33	0.023
10/8/2018	12:39:33	0.024
10/8/2018	12:40:33	0.024
10/8/2018	12:41:33	0.024
10/8/2018	12:42:33	0.024
10/8/2018	12:43:33	0.024
10/8/2018	12:44:33	0.025
10/8/2018	12:45:33	0.025
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10/8/2018	12:47:33	0.024
10/8/2018	12:48:33	0.023
10/8/2018	12:49:33	0.024
10/8/2018	12:50:33	0.023
10/8/2018	12:51:33	0.023
10/8/2018	12:52:33	0.022
10/8/2018	12:53:33	0.022
10/8/2018	12:54:33	0.024
10/8/2018	12:55:33	0.025
10/8/2018	12:56:33	0.025
10/8/2018	12:57:33	0.024
10/8/2018	12:58:33	0.023
10/8/2018	12:59:33	0.023
10/8/2018	13:00:33	0.023

10/8/2018	13:01:33	0.025
10/8/2018	13:02:33	0.025
10/8/2018	13:03:33	0.024
10/8/2018	13:04:33	0.024
10/8/2018	13:05:33	0.025
10/8/2018	13:06:33	0.025
10/8/2018	13:07:33	0.029
10/8/2018	13:08:33	0.027
10/8/2018	13:09:33	0.034
10/8/2018	13:10:33	0.03
10/8/2018	13:11:33	0.028
10/8/2018	13:12:33	0.029
10/8/2018	13:13:33	0.027
10/8/2018	13:14:33	0.028
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10/8/2018	13:16:33	0.031
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10/8/2018	13:33:33	0.03
10/8/2018	13:34:33	0.03
10/8/2018	13:35:33	0.028
10/8/2018	13:36:33	0.03
10/8/2018	13:37:33	0.028
10/8/2018	13:38:33	0.032
10/8/2018	13:39:33	0.027
10/8/2018	13:40:33	0.026
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10/8/2018	13:42:33	0.029
10/8/2018	13:43:33	0.03
10/8/2018	13:44:33	0.025
10/8/2018	13:45:33	0.025
10/8/2018	13:46:33	0.024
10/8/2018	13:47:33	0.024

10/8/2018	13:48:33	0.024
10/8/2018	13:49:33	0.024
10/8/2018	13:50:33	0.024
10/8/2018	13:51:33	0.025
10/8/2018	13:52:33	0.025
10/8/2018	13:53:33	0.024
10/8/2018	13:54:33	0.025
10/8/2018	13:55:33	0.027
10/8/2018	13:56:33	0.025
10/8/2018	13:57:33	0.027
10/8/2018	13:58:33	0.027
10/8/2018	13:59:33	0.024
10/8/2018	14:00:33	0.024
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10/8/2018	14:02:33	0.023
10/8/2018	14:03:33	0.024
10/8/2018	14:04:33	0.023
10/8/2018	14:05:33	0.024
10/8/2018	14:06:33	0.024
10/8/2018	14:07:33	0.029
10/8/2018	14:08:33	0.027
10/8/2018	14:09:33	0.024
10/8/2018	14:10:33	0.025
10/8/2018	14:11:33	0.025
10/8/2018	14:12:33	0.033
10/8/2018	14:13:33	0.031
10/8/2018	14:14:33	0.027
10/8/2018	14:15:33	0.03
10/8/2018	14:16:33	0.027
10/8/2018	14:17:33	0.024
10/8/2018	14:18:33	0.026
10/8/2018	14:19:33	0.025
10/8/2018	14:20:33	0.025
10/8/2018	14:21:33	0.024
10/8/2018	14:22:33	0.024
10/8/2018	14:23:33	0.024
10/8/2018	14:24:33	0.024
10/8/2018	14:25:33	0.025
10/8/2018	14:26:33	0.026
10/8/2018	14:27:33	0.024
10/8/2018	14:28:33	0.027
10/8/2018	14:29:33	0.026
10/8/2018	14:30:33	0.025
10/8/2018	14:31:33	0.024
10/8/2018	14:32:33	0.024
10/8/2018	14:33:33	0.023
10/8/2018	14:34:33	0.025

10/8/2018	14:35:33	0.025
10/8/2018	14:36:33	0.026
10/8/2018	14:37:33	0.026
10/8/2018	14:38:33	0.027
10/8/2018	14:39:33	0.027
10/8/2018	14:40:33	0.036
10/8/2018	14:41:33	0.03
10/8/2018	14:42:33	0.027
10/8/2018	14:43:33	0.027
10/8/2018	14:44:33	0.026
10/8/2018	14:45:33	0.028
10/8/2018	14:46:33	0.028
10/8/2018	14:47:33	0.028
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10/8/2018	14:49:33	0.027
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10/8/2018	14:52:33	0.027
10/8/2018	14:53:33	0.027
10/8/2018	14:54:33	0.026
10/8/2018	14:55:33	0.027
10/8/2018	14:56:33	0.026
10/8/2018	14:57:33	0.027
10/8/2018	14:58:33	0.028
10/8/2018	14:59:33	0.028
10/8/2018	15:00:33	0.029
10/8/2018	15:01:33	0.028
10/8/2018	15:02:33	0.027
10/8/2018	15:03:33	0.027
10/8/2018	15:04:33	0.027
10/8/2018	15:05:33	0.027
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10/8/2018	15:07:33	0.027
10/8/2018	15:08:33	0.032
10/8/2018	15:09:33	0.029
10/8/2018	15:10:33	0.03
10/8/2018	15:11:33	0.028
10/8/2018	15:12:33	0.028
10/8/2018	15:13:33	0.028
10/8/2018	15:14:33	0.029
10/8/2018	15:15:33	0.029
10/8/2018	15:16:33	0.031
10/8/2018	15:17:33	0.042
10/8/2018	15:18:33	0.039
10/8/2018	15:19:33	0.034
10/8/2018	15:20:33	0.032
10/8/2018	15:21:33	0.031

10/8/2018	15:22:33	0.03
10/8/2018	15:23:33	0.029
10/8/2018	15:24:33	0.03
10/8/2018	15:25:33	0.03
10/8/2018	15:26:33	0.03
10/8/2018	15:27:33	0.03
10/8/2018	15:28:33	0.032
10/8/2018	15:29:33	0.031
10/8/2018	15:30:33	0.032
10/8/2018	15:31:33	0.034
10/8/2018	15:32:33	0.032
10/8/2018	15:33:33	0.033
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10/8/2018	15:35:33	0.031
10/8/2018	15:36:33	0.031
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10/8/2018	15:38:33	0.034
10/8/2018	15:39:33	0.033
10/8/2018	15:40:33	0.032
10/8/2018	15:41:33	0.029
10/8/2018	15:42:33	0.029
10/8/2018	15:43:33	0.028
10/8/2018	15:44:33	0.029
10/8/2018	15:45:33	0.029
10/8/2018	15:46:33	0.028
10/8/2018	15:47:33	0.03
10/8/2018	15:48:33	0.03
10/8/2018	15:49:33	0.03
10/8/2018	15:50:33	0.032
10/8/2018	15:51:33	0.033
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10/8/2018	15:53:33	0.03
10/8/2018	15:54:33	0.029
10/8/2018	15:55:33	0.029
10/8/2018	15:56:33	0.029
10/8/2018	15:57:33	0.027
10/8/2018	15:58:33	0.024
10/8/2018	15:59:33	0.024
10/8/2018	16:00:33	0.022
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10/8/2018	16:03:33	0.015
10/8/2018	16:04:33	0.014
10/8/2018	16:05:33	0.014
10/8/2018	16:06:33	0.014
10/8/2018	16:07:33	0.015
10/8/2018	16:08:33	0.015



10/8/2018	16:09:33	0.013
10/8/2018	16:10:33	0.012
10/8/2018	16:11:33	0.011
10/8/2018	16:12:33	0.012
10/8/2018	16:13:33	0.012
10/8/2018	16:14:33	0.012
10/8/2018	16:15:33	0.014
10/8/2018	16:16:33	0.013
10/8/2018	16:17:33	0.012
10/8/2018	16:18:33	0.011
10/8/2018	16:19:33	0.011
10/8/2018	16:20:33	0.012
10/8/2018	16:21:33	0.011
10/8/2018	16:22:33	0.011
10/8/2018	16:23:33	0.011
10/8/2018	16:24:33	0.011
10/8/2018	16:25:33	0.011
10/8/2018	16:26:33	0.011
10/8/2018	16:27:33	0.011
10/8/2018	16:28:33	0.011
10/8/2018	16:29:33	0.011
10/8/2018	16:30:33	0.011
10/8/2018	16:31:33	0.011
10/8/2018	16:32:33	0.011
10/8/2018	16:33:33	0.011
10/8/2018	16:34:33	0.01
10/8/2018	16:35:33	0.01
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10/8/2018	16:40:33	0.011
10/8/2018	16:41:33	0.018
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10/8/2018	16:43:33	0.011
10/8/2018	16:44:33	0.011
10/8/2018	16:45:33	0.011
10/8/2018	16:46:33	0.01
10/8/2018	16:47:33	0.01
10/8/2018	16:48:33	0.011
10/8/2018	16:49:33	0.01
10/8/2018	16:50:33	0.011
10/8/2018	16:51:33	0.011
10/8/2018	16:52:33	0.011
10/8/2018	16:53:33	0.011
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10/8/2018	16:55:33	0.011

10/8/2018	16:56:33	0.011
10/8/2018	16:57:33	0.011
10/8/2018	16:58:33	0.01
10/8/2018	16:59:33	0.01
10/8/2018	17:00:33	0.01
10/8/2018	17:01:33	0.01
10/8/2018	17:02:33	0.01
10/8/2018	17:03:33	0.011
10/8/2018	17:04:33	0.012

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530151706  
 Test ID: 2  
 Test Abbreviation: Downwind\_100918  
 Start Date: 10/9/2018  
 Start Time: 8:04:55  
 Duration (dd:hh:mm:ss): 0:08:37:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 517  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.023  
 Minimum: 0.016  
 Time of Minimum: 10:30:55  
 Date of Minimum: 10/9/2018  
 Maximum: 0.073  
 Time of Maximum: 12:47:55  
 Date of Maximum: 10/9/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/9/2018	8:05:55	0.022
10/9/2018	8:06:55	0.022
10/9/2018	8:07:55	0.032
10/9/2018	8:08:55	0.03
10/9/2018	8:09:55	0.027
10/9/2018	8:10:55	0.034
10/9/2018	8:11:55	0.024
10/9/2018	8:12:55	0.025
10/9/2018	8:13:55	0.022
10/9/2018	8:14:55	0.021
10/9/2018	8:15:55	0.024
10/9/2018	8:16:55	0.022
10/9/2018	8:17:55	0.032
10/9/2018	8:18:55	0.027
10/9/2018	8:19:55	0.022
10/9/2018	8:20:55	0.02
10/9/2018	8:21:55	0.02
10/9/2018	8:22:55	0.021
10/9/2018	8:23:55	0.02
10/9/2018	8:24:55	0.02
10/9/2018	8:25:55	0.05

10/9/2018	8:26:55	0.025
10/9/2018	8:27:55	0.022
10/9/2018	8:28:55	0.029
10/9/2018	8:29:55	0.026
10/9/2018	8:30:55	0.043
10/9/2018	8:31:55	0.024
10/9/2018	8:32:55	0.02
10/9/2018	8:33:55	0.019
10/9/2018	8:34:55	0.025
10/9/2018	8:35:55	0.02
10/9/2018	8:36:55	0.021
10/9/2018	8:37:55	0.023
10/9/2018	8:38:55	0.025
10/9/2018	8:39:55	0.026
10/9/2018	8:40:55	0.021
10/9/2018	8:41:55	0.022
10/9/2018	8:42:55	0.021
10/9/2018	8:43:55	0.021
10/9/2018	8:44:55	0.024
10/9/2018	8:45:55	0.02
10/9/2018	8:46:55	0.02
10/9/2018	8:47:55	0.021
10/9/2018	8:48:55	0.019
10/9/2018	8:49:55	0.019
10/9/2018	8:50:55	0.019
10/9/2018	8:51:55	0.02
10/9/2018	8:52:55	0.019
10/9/2018	8:53:55	0.02
10/9/2018	8:54:55	0.019
10/9/2018	8:55:55	0.02
10/9/2018	8:56:55	0.019
10/9/2018	8:57:55	0.023
10/9/2018	8:58:55	0.023
10/9/2018	8:59:55	0.023
10/9/2018	9:00:55	0.02
10/9/2018	9:01:55	0.023
10/9/2018	9:02:55	0.028
10/9/2018	9:03:55	0.033
10/9/2018	9:04:55	0.022
10/9/2018	9:05:55	0.022
10/9/2018	9:06:55	0.026
10/9/2018	9:07:55	0.029
10/9/2018	9:08:55	0.031
10/9/2018	9:09:55	0.02
10/9/2018	9:10:55	0.039
10/9/2018	9:11:55	0.034
10/9/2018	9:12:55	0.031

10/9/2018	9:13:55	0.038
10/9/2018	9:14:55	0.021
10/9/2018	9:15:55	0.022
10/9/2018	9:16:55	0.018
10/9/2018	9:17:55	0.034
10/9/2018	9:18:55	0.03
10/9/2018	9:19:55	0.022
10/9/2018	9:20:55	0.019
10/9/2018	9:21:55	0.02
10/9/2018	9:22:55	0.021
10/9/2018	9:23:55	0.022
10/9/2018	9:24:55	0.021
10/9/2018	9:25:55	0.02
10/9/2018	9:26:55	0.024
10/9/2018	9:27:55	0.022
10/9/2018	9:28:55	0.021
10/9/2018	9:29:55	0.03
10/9/2018	9:30:55	0.018
10/9/2018	9:31:55	0.017
10/9/2018	9:32:55	0.02
10/9/2018	9:33:55	0.043
10/9/2018	9:34:55	0.028
10/9/2018	9:35:55	0.017
10/9/2018	9:36:55	0.022
10/9/2018	9:37:55	0.024
10/9/2018	9:38:55	0.021
10/9/2018	9:39:55	0.02
10/9/2018	9:40:55	0.018
10/9/2018	9:41:55	0.017
10/9/2018	9:42:55	0.017
10/9/2018	9:43:55	0.019
10/9/2018	9:44:55	0.017
10/9/2018	9:45:55	0.018
10/9/2018	9:46:55	0.018
10/9/2018	9:47:55	0.021
10/9/2018	9:48:55	0.019
10/9/2018	9:49:55	0.019
10/9/2018	9:50:55	0.02
10/9/2018	9:51:55	0.021
10/9/2018	9:52:55	0.019
10/9/2018	9:53:55	0.018
10/9/2018	9:54:55	0.019
10/9/2018	9:55:55	0.023
10/9/2018	9:56:55	0.018
10/9/2018	9:57:55	0.021
10/9/2018	9:58:55	0.018
10/9/2018	9:59:55	0.02

10/9/2018	10:00:55	0.021
10/9/2018	10:01:55	0.021
10/9/2018	10:02:55	0.02
10/9/2018	10:03:55	0.018
10/9/2018	10:04:55	0.021
10/9/2018	10:05:55	0.021
10/9/2018	10:06:55	0.02
10/9/2018	10:07:55	0.022
10/9/2018	10:08:55	0.028
10/9/2018	10:09:55	0.021
10/9/2018	10:10:55	0.019
10/9/2018	10:11:55	0.02
10/9/2018	10:12:55	0.021
10/9/2018	10:13:55	0.022
10/9/2018	10:14:55	0.022
10/9/2018	10:15:55	0.021
10/9/2018	10:16:55	0.023
10/9/2018	10:17:55	0.024
10/9/2018	10:18:55	0.022
10/9/2018	10:19:55	0.024
10/9/2018	10:20:55	0.018
10/9/2018	10:21:55	0.018
10/9/2018	10:22:55	0.017
10/9/2018	10:23:55	0.017
10/9/2018	10:24:55	0.022
10/9/2018	10:25:55	0.029
10/9/2018	10:26:55	0.018
10/9/2018	10:27:55	0.019
10/9/2018	10:28:55	0.017
10/9/2018	10:29:55	0.017
10/9/2018	10:30:55	0.016
10/9/2018	10:31:55	0.017
10/9/2018	10:32:55	0.017
10/9/2018	10:33:55	0.018
10/9/2018	10:34:55	0.017
10/9/2018	10:35:55	0.018
10/9/2018	10:36:55	0.024
10/9/2018	10:37:55	0.027
10/9/2018	10:38:55	0.023
10/9/2018	10:39:55	0.018
10/9/2018	10:40:55	0.017
10/9/2018	10:41:55	0.017
10/9/2018	10:42:55	0.018
10/9/2018	10:43:55	0.02
10/9/2018	10:44:55	0.02
10/9/2018	10:45:55	0.021
10/9/2018	10:46:55	0.018

10/9/2018	10:47:55	0.017
10/9/2018	10:48:55	0.018
10/9/2018	10:49:55	0.019
10/9/2018	10:50:55	0.018
10/9/2018	10:51:55	0.018
10/9/2018	10:52:55	0.018
10/9/2018	10:53:55	0.019
10/9/2018	10:54:55	0.02
10/9/2018	10:55:55	0.025
10/9/2018	10:56:55	0.018
10/9/2018	10:57:55	0.018
10/9/2018	10:58:55	0.019
10/9/2018	10:59:55	0.019
10/9/2018	11:00:55	0.019
10/9/2018	11:01:55	0.019
10/9/2018	11:02:55	0.018
10/9/2018	11:03:55	0.02
10/9/2018	11:04:55	0.021
10/9/2018	11:05:55	0.017
10/9/2018	11:06:55	0.019
10/9/2018	11:07:55	0.023
10/9/2018	11:08:55	0.026
10/9/2018	11:09:55	0.023
10/9/2018	11:10:55	0.022
10/9/2018	11:11:55	0.022
10/9/2018	11:12:55	0.021
10/9/2018	11:13:55	0.02
10/9/2018	11:14:55	0.019
10/9/2018	11:15:55	0.021
10/9/2018	11:16:55	0.02
10/9/2018	11:17:55	0.022
10/9/2018	11:18:55	0.021
10/9/2018	11:19:55	0.02
10/9/2018	11:20:55	0.021
10/9/2018	11:21:55	0.021
10/9/2018	11:22:55	0.022
10/9/2018	11:23:55	0.018
10/9/2018	11:24:55	0.021
10/9/2018	11:25:55	0.022
10/9/2018	11:26:55	0.027
10/9/2018	11:27:55	0.023
10/9/2018	11:28:55	0.026
10/9/2018	11:29:55	0.029
10/9/2018	11:30:55	0.031
10/9/2018	11:31:55	0.034
10/9/2018	11:32:55	0.026
10/9/2018	11:33:55	0.023

10/9/2018	11:34:55	0.019
10/9/2018	11:35:55	0.018
10/9/2018	11:36:55	0.019
10/9/2018	11:37:55	0.02
10/9/2018	11:38:55	0.025
10/9/2018	11:39:55	0.022
10/9/2018	11:40:55	0.02
10/9/2018	11:41:55	0.022
10/9/2018	11:42:55	0.02
10/9/2018	11:43:55	0.019
10/9/2018	11:44:55	0.019
10/9/2018	11:45:55	0.021
10/9/2018	11:46:55	0.02
10/9/2018	11:47:55	0.018
10/9/2018	11:48:55	0.022
10/9/2018	11:49:55	0.021
10/9/2018	11:50:55	0.021
10/9/2018	11:51:55	0.024
10/9/2018	11:52:55	0.023
10/9/2018	11:53:55	0.021
10/9/2018	11:54:55	0.023
10/9/2018	11:55:55	0.022
10/9/2018	11:56:55	0.022
10/9/2018	11:57:55	0.021
10/9/2018	11:58:55	0.022
10/9/2018	11:59:55	0.02
10/9/2018	12:00:55	0.019
10/9/2018	12:01:55	0.02
10/9/2018	12:02:55	0.019
10/9/2018	12:03:55	0.021
10/9/2018	12:04:55	0.021
10/9/2018	12:05:55	0.019
10/9/2018	12:06:55	0.019
10/9/2018	12:07:55	0.019
10/9/2018	12:08:55	0.019
10/9/2018	12:09:55	0.021
10/9/2018	12:10:55	0.02
10/9/2018	12:11:55	0.02
10/9/2018	12:12:55	0.02
10/9/2018	12:13:55	0.018
10/9/2018	12:14:55	0.018
10/9/2018	12:15:55	0.02
10/9/2018	12:16:55	0.022
10/9/2018	12:17:55	0.021
10/9/2018	12:18:55	0.021
10/9/2018	12:19:55	0.019
10/9/2018	12:20:55	0.019



10/9/2018	12:21:55	0.019
10/9/2018	12:22:55	0.02
10/9/2018	12:23:55	0.019
10/9/2018	12:24:55	0.018
10/9/2018	12:25:55	0.019
10/9/2018	12:26:55	0.019
10/9/2018	12:27:55	0.02
10/9/2018	12:28:55	0.019
10/9/2018	12:29:55	0.021
10/9/2018	12:30:55	0.02
10/9/2018	12:31:55	0.02
10/9/2018	12:32:55	0.021
10/9/2018	12:33:55	0.02
10/9/2018	12:34:55	0.019
10/9/2018	12:35:55	0.019
10/9/2018	12:36:55	0.022
10/9/2018	12:37:55	0.022
10/9/2018	12:38:55	0.02
10/9/2018	12:39:55	0.019
10/9/2018	12:40:55	0.019
10/9/2018	12:41:55	0.019
10/9/2018	12:42:55	0.019
10/9/2018	12:43:55	0.019
10/9/2018	12:44:55	0.02
10/9/2018	12:45:55	0.022
10/9/2018	12:46:55	0.019
10/9/2018	12:47:55	0.073
10/9/2018	12:48:55	0.049
10/9/2018	12:49:55	0.053
10/9/2018	12:50:55	0.024
10/9/2018	12:51:55	0.029
10/9/2018	12:52:55	0.021
10/9/2018	12:53:55	0.019
10/9/2018	12:54:55	0.019
10/9/2018	12:55:55	0.02
10/9/2018	12:56:55	0.032
10/9/2018	12:57:55	0.03
10/9/2018	12:58:55	0.021
10/9/2018	12:59:55	0.022
10/9/2018	13:00:55	0.025
10/9/2018	13:01:55	0.025
10/9/2018	13:02:55	0.024
10/9/2018	13:03:55	0.028
10/9/2018	13:04:55	0.022
10/9/2018	13:05:55	0.022
10/9/2018	13:06:55	0.022
10/9/2018	13:07:55	0.023

10/9/2018	13:08:55	0.025
10/9/2018	13:09:55	0.025
10/9/2018	13:10:55	0.023
10/9/2018	13:11:55	0.023
10/9/2018	13:12:55	0.034
10/9/2018	13:13:55	0.025
10/9/2018	13:14:55	0.022
10/9/2018	13:15:55	0.023
10/9/2018	13:16:55	0.024
10/9/2018	13:17:55	0.022
10/9/2018	13:18:55	0.031
10/9/2018	13:19:55	0.021
10/9/2018	13:20:55	0.02
10/9/2018	13:21:55	0.025
10/9/2018	13:22:55	0.02
10/9/2018	13:23:55	0.02
10/9/2018	13:24:55	0.02
10/9/2018	13:25:55	0.02
10/9/2018	13:26:55	0.021
10/9/2018	13:27:55	0.022
10/9/2018	13:28:55	0.021
10/9/2018	13:29:55	0.022
10/9/2018	13:30:55	0.021
10/9/2018	13:31:55	0.022
10/9/2018	13:32:55	0.022
10/9/2018	13:33:55	0.022
10/9/2018	13:34:55	0.023
10/9/2018	13:35:55	0.022
10/9/2018	13:36:55	0.021
10/9/2018	13:37:55	0.02
10/9/2018	13:38:55	0.023
10/9/2018	13:39:55	0.027
10/9/2018	13:40:55	0.023
10/9/2018	13:41:55	0.02
10/9/2018	13:42:55	0.021
10/9/2018	13:43:55	0.021
10/9/2018	13:44:55	0.021
10/9/2018	13:45:55	0.023
10/9/2018	13:46:55	0.021
10/9/2018	13:47:55	0.025
10/9/2018	13:48:55	0.024
10/9/2018	13:49:55	0.019
10/9/2018	13:50:55	0.022
10/9/2018	13:51:55	0.024
10/9/2018	13:52:55	0.022
10/9/2018	13:53:55	0.019
10/9/2018	13:54:55	0.02

10/9/2018	13:55:55	0.02
10/9/2018	13:56:55	0.02
10/9/2018	13:57:55	0.021
10/9/2018	13:58:55	0.022
10/9/2018	13:59:55	0.025
10/9/2018	14:00:55	0.022
10/9/2018	14:01:55	0.021
10/9/2018	14:02:55	0.02
10/9/2018	14:03:55	0.02
10/9/2018	14:04:55	0.021
10/9/2018	14:05:55	0.021
10/9/2018	14:06:55	0.023
10/9/2018	14:07:55	0.022
10/9/2018	14:08:55	0.021
10/9/2018	14:09:55	0.022
10/9/2018	14:10:55	0.021
10/9/2018	14:11:55	0.041
10/9/2018	14:12:55	0.022
10/9/2018	14:13:55	0.021
10/9/2018	14:14:55	0.022
10/9/2018	14:15:55	0.023
10/9/2018	14:16:55	0.022
10/9/2018	14:17:55	0.023
10/9/2018	14:18:55	0.029
10/9/2018	14:19:55	0.032
10/9/2018	14:20:55	0.022
10/9/2018	14:21:55	0.021
10/9/2018	14:22:55	0.023
10/9/2018	14:23:55	0.022
10/9/2018	14:24:55	0.022
10/9/2018	14:25:55	0.022
10/9/2018	14:26:55	0.025
10/9/2018	14:27:55	0.026
10/9/2018	14:28:55	0.025
10/9/2018	14:29:55	0.027
10/9/2018	14:30:55	0.024
10/9/2018	14:31:55	0.024
10/9/2018	14:32:55	0.022
10/9/2018	14:33:55	0.022
10/9/2018	14:34:55	0.024
10/9/2018	14:35:55	0.031
10/9/2018	14:36:55	0.022
10/9/2018	14:37:55	0.025
10/9/2018	14:38:55	0.025
10/9/2018	14:39:55	0.023
10/9/2018	14:40:55	0.023
10/9/2018	14:41:55	0.023

10/9/2018	14:42:55	0.026
10/9/2018	14:43:55	0.025
10/9/2018	14:44:55	0.025
10/9/2018	14:45:55	0.024
10/9/2018	14:46:55	0.024
10/9/2018	14:47:55	0.032
10/9/2018	14:48:55	0.022
10/9/2018	14:49:55	0.024
10/9/2018	14:50:55	0.022
10/9/2018	14:51:55	0.022
10/9/2018	14:52:55	0.024
10/9/2018	14:53:55	0.022
10/9/2018	14:54:55	0.025
10/9/2018	14:55:55	0.025
10/9/2018	14:56:55	0.022
10/9/2018	14:57:55	0.025
10/9/2018	14:58:55	0.024
10/9/2018	14:59:55	0.023
10/9/2018	15:00:55	0.023
10/9/2018	15:01:55	0.023
10/9/2018	15:02:55	0.032
10/9/2018	15:03:55	0.033
10/9/2018	15:04:55	0.026
10/9/2018	15:05:55	0.024
10/9/2018	15:06:55	0.026
10/9/2018	15:07:55	0.026
10/9/2018	15:08:55	0.029
10/9/2018	15:09:55	0.025
10/9/2018	15:10:55	0.026
10/9/2018	15:11:55	0.024
10/9/2018	15:12:55	0.025
10/9/2018	15:13:55	0.026
10/9/2018	15:14:55	0.03
10/9/2018	15:15:55	0.025
10/9/2018	15:16:55	0.042
10/9/2018	15:17:55	0.072
10/9/2018	15:18:55	0.026
10/9/2018	15:19:55	0.025
10/9/2018	15:20:55	0.027
10/9/2018	15:21:55	0.024
10/9/2018	15:22:55	0.03
10/9/2018	15:23:55	0.055
10/9/2018	15:24:55	0.035
10/9/2018	15:25:55	0.025
10/9/2018	15:26:55	0.032
10/9/2018	15:27:55	0.024
10/9/2018	15:28:55	0.024

10/9/2018	15:29:55	0.025
10/9/2018	15:30:55	0.025
10/9/2018	15:31:55	0.026
10/9/2018	15:32:55	0.025
10/9/2018	15:33:55	0.028
10/9/2018	15:34:55	0.024
10/9/2018	15:35:55	0.027
10/9/2018	15:36:55	0.028
10/9/2018	15:37:55	0.027
10/9/2018	15:38:55	0.031
10/9/2018	15:39:55	0.026
10/9/2018	15:40:55	0.024
10/9/2018	15:41:55	0.031
10/9/2018	15:42:55	0.027
10/9/2018	15:43:55	0.035
10/9/2018	15:44:55	0.032
10/9/2018	15:45:55	0.027
10/9/2018	15:46:55	0.03
10/9/2018	15:47:55	0.026
10/9/2018	15:48:55	0.025
10/9/2018	15:49:55	0.025
10/9/2018	15:50:55	0.025
10/9/2018	15:51:55	0.028
10/9/2018	15:52:55	0.032
10/9/2018	15:53:55	0.027
10/9/2018	15:54:55	0.026
10/9/2018	15:55:55	0.026
10/9/2018	15:56:55	0.026
10/9/2018	15:57:55	0.024
10/9/2018	15:58:55	0.023
10/9/2018	15:59:55	0.027
10/9/2018	16:00:55	0.027
10/9/2018	16:01:55	0.025
10/9/2018	16:02:55	0.025
10/9/2018	16:03:55	0.024
10/9/2018	16:04:55	0.025
10/9/2018	16:05:55	0.024
10/9/2018	16:06:55	0.024
10/9/2018	16:07:55	0.025
10/9/2018	16:08:55	0.025
10/9/2018	16:09:55	0.024
10/9/2018	16:10:55	0.024
10/9/2018	16:11:55	0.024
10/9/2018	16:12:55	0.023
10/9/2018	16:13:55	0.026
10/9/2018	16:14:55	0.026
10/9/2018	16:15:55	0.026

10/9/2018	16:16:55	0.026
10/9/2018	16:17:55	0.026
10/9/2018	16:18:55	0.025
10/9/2018	16:19:55	0.025
10/9/2018	16:20:55	0.025
10/9/2018	16:21:55	0.025
10/9/2018	16:22:55	0.025
10/9/2018	16:23:55	0.029
10/9/2018	16:24:55	0.027
10/9/2018	16:25:55	0.028
10/9/2018	16:26:55	0.028
10/9/2018	16:27:55	0.026
10/9/2018	16:28:55	0.025
10/9/2018	16:29:55	0.026
10/9/2018	16:30:55	0.027
10/9/2018	16:31:55	0.027
10/9/2018	16:32:55	0.027
10/9/2018	16:33:55	0.026
10/9/2018	16:34:55	0.025
10/9/2018	16:35:55	0.025
10/9/2018	16:36:55	0.025
10/9/2018	16:37:55	0.025
10/9/2018	16:38:55	0.025
10/9/2018	16:39:55	0.025
10/9/2018	16:40:55	0.028
10/9/2018	16:41:55	0.026

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530151706  
Test ID: 3  
Test Abbreviation: Downwind\_101018  
Start Date: 10/10/2018  
Start Time: 8:45:30  
Duration (dd:hh:mm:ss): 0:07:29:00  
Log Interval (mm:ss): 1:00  
Number of points: 449  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.033  
Minimum: 0.021  
Time of Minimum: 15:56:30  
Date of Minimum: 10/10/2018  
Maximum: 0.064  
Time of Maximum: 8:55:30  
Date of Maximum: 10/10/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
10/10/2018	8:46:30	0.051
10/10/2018	8:47:30	0.054
10/10/2018	8:48:30	0.053
10/10/2018	8:49:30	0.057
10/10/2018	8:50:30	0.058
10/10/2018	8:51:30	0.058
10/10/2018	8:52:30	0.055
10/10/2018	8:53:30	0.053
10/10/2018	8:54:30	0.055
10/10/2018	8:55:30	0.064
10/10/2018	8:56:30	0.06
10/10/2018	8:57:30	0.053
10/10/2018	8:58:30	0.052
10/10/2018	8:59:30	0.052
10/10/2018	9:00:30	0.052
10/10/2018	9:01:30	0.053
10/10/2018	9:02:30	0.054
10/10/2018	9:03:30	0.052
10/10/2018	9:04:30	0.05
10/10/2018	9:05:30	0.05
10/10/2018	9:06:30	0.05

10/10/2018	9:07:30	0.049
10/10/2018	9:08:30	0.048
10/10/2018	9:09:30	0.05
10/10/2018	9:10:30	0.048
10/10/2018	9:11:30	0.049
10/10/2018	9:12:30	0.048
10/10/2018	9:13:30	0.047
10/10/2018	9:14:30	0.047
10/10/2018	9:15:30	0.048
10/10/2018	9:16:30	0.047
10/10/2018	9:17:30	0.045
10/10/2018	9:18:30	0.045
10/10/2018	9:19:30	0.046
10/10/2018	9:20:30	0.045
10/10/2018	9:21:30	0.044
10/10/2018	9:22:30	0.043
10/10/2018	9:23:30	0.042
10/10/2018	9:24:30	0.042
10/10/2018	9:25:30	0.043
10/10/2018	9:26:30	0.05
10/10/2018	9:27:30	0.041
10/10/2018	9:28:30	0.044
10/10/2018	9:29:30	0.044
10/10/2018	9:30:30	0.04
10/10/2018	9:31:30	0.04
10/10/2018	9:32:30	0.039
10/10/2018	9:33:30	0.039
10/10/2018	9:34:30	0.04
10/10/2018	9:35:30	0.04
10/10/2018	9:36:30	0.039
10/10/2018	9:37:30	0.039
10/10/2018	9:38:30	0.04
10/10/2018	9:39:30	0.044
10/10/2018	9:40:30	0.048
10/10/2018	9:41:30	0.047
10/10/2018	9:42:30	0.042
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10/10/2018	9:44:30	0.042
10/10/2018	9:45:30	0.04
10/10/2018	9:46:30	0.04
10/10/2018	9:47:30	0.043
10/10/2018	9:48:30	0.045
10/10/2018	9:49:30	0.042
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10/10/2018	9:51:30	0.037
10/10/2018	9:52:30	0.035
10/10/2018	9:53:30	0.034



10/10/2018	9:54:30	0.036
10/10/2018	9:55:30	0.035
10/10/2018	9:56:30	0.035
10/10/2018	9:57:30	0.036
10/10/2018	9:58:30	0.036
10/10/2018	9:59:30	0.038
10/10/2018	10:00:30	0.036
10/10/2018	10:01:30	0.036
10/10/2018	10:02:30	0.037
10/10/2018	10:03:30	0.039
10/10/2018	10:04:30	0.041
10/10/2018	10:05:30	0.041
10/10/2018	10:06:30	0.04
10/10/2018	10:07:30	0.04
10/10/2018	10:08:30	0.039
10/10/2018	10:09:30	0.038
10/10/2018	10:10:30	0.035
10/10/2018	10:11:30	0.036
10/10/2018	10:12:30	0.038
10/10/2018	10:13:30	0.038
10/10/2018	10:14:30	0.034
10/10/2018	10:15:30	0.04
10/10/2018	10:16:30	0.042
10/10/2018	10:17:30	0.038
10/10/2018	10:18:30	0.033
10/10/2018	10:19:30	0.034
10/10/2018	10:20:30	0.033
10/10/2018	10:21:30	0.032
10/10/2018	10:22:30	0.033
10/10/2018	10:23:30	0.032
10/10/2018	10:24:30	0.031
10/10/2018	10:25:30	0.041
10/10/2018	10:26:30	0.035
10/10/2018	10:27:30	0.032
10/10/2018	10:28:30	0.037
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10/10/2018	10:30:30	0.037
10/10/2018	10:31:30	0.035
10/10/2018	10:32:30	0.034
10/10/2018	10:33:30	0.033
10/10/2018	10:34:30	0.031
10/10/2018	10:35:30	0.032
10/10/2018	10:36:30	0.034
10/10/2018	10:37:30	0.036
10/10/2018	10:38:30	0.04
10/10/2018	10:39:30	0.041
10/10/2018	10:40:30	0.042

10/10/2018	10:41:30	0.04
10/10/2018	10:42:30	0.038
10/10/2018	10:43:30	0.037
10/10/2018	10:44:30	0.038
10/10/2018	10:45:30	0.038
10/10/2018	10:46:30	0.04
10/10/2018	10:47:30	0.039
10/10/2018	10:48:30	0.036
10/10/2018	10:49:30	0.036
10/10/2018	10:50:30	0.036
10/10/2018	10:51:30	0.04
10/10/2018	10:52:30	0.036
10/10/2018	10:53:30	0.035
10/10/2018	10:54:30	0.037
10/10/2018	10:55:30	0.04
10/10/2018	10:56:30	0.04
10/10/2018	10:57:30	0.039
10/10/2018	10:58:30	0.038
10/10/2018	10:59:30	0.037
10/10/2018	11:00:30	0.057
10/10/2018	11:01:30	0.047
10/10/2018	11:02:30	0.04
10/10/2018	11:03:30	0.038
10/10/2018	11:04:30	0.034
10/10/2018	11:05:30	0.037
10/10/2018	11:06:30	0.036
10/10/2018	11:07:30	0.039
10/10/2018	11:08:30	0.035
10/10/2018	11:09:30	0.032
10/10/2018	11:10:30	0.031
10/10/2018	11:11:30	0.026
10/10/2018	11:12:30	0.027
10/10/2018	11:13:30	0.026
10/10/2018	11:14:30	0.027
10/10/2018	11:15:30	0.027
10/10/2018	11:16:30	0.027
10/10/2018	11:17:30	0.027
10/10/2018	11:18:30	0.027
10/10/2018	11:19:30	0.028
10/10/2018	11:20:30	0.028
10/10/2018	11:21:30	0.029
10/10/2018	11:22:30	0.03
10/10/2018	11:23:30	0.031
10/10/2018	11:24:30	0.039
10/10/2018	11:25:30	0.039
10/10/2018	11:26:30	0.037
10/10/2018	11:27:30	0.035

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10/10/2018	11:29:30	0.033
10/10/2018	11:30:30	0.03
10/10/2018	11:31:30	0.03
10/10/2018	11:32:30	0.029
10/10/2018	11:33:30	0.028
10/10/2018	11:34:30	0.04
10/10/2018	11:35:30	0.028
10/10/2018	11:36:30	0.027
10/10/2018	11:37:30	0.028
10/10/2018	11:38:30	0.027
10/10/2018	11:39:30	0.027
10/10/2018	11:40:30	0.027
10/10/2018	11:41:30	0.031
10/10/2018	11:42:30	0.038
10/10/2018	11:43:30	0.035
10/10/2018	11:44:30	0.029
10/10/2018	11:45:30	0.027
10/10/2018	11:46:30	0.027
10/10/2018	11:47:30	0.026
10/10/2018	11:48:30	0.027
10/10/2018	11:49:30	0.031
10/10/2018	11:50:30	0.027
10/10/2018	11:51:30	0.027
10/10/2018	11:52:30	0.028
10/10/2018	11:53:30	0.028
10/10/2018	11:54:30	0.026
10/10/2018	11:55:30	0.027
10/10/2018	11:56:30	0.029
10/10/2018	11:57:30	0.027
10/10/2018	11:58:30	0.028
10/10/2018	11:59:30	0.035
10/10/2018	12:00:30	0.028
10/10/2018	12:01:30	0.026
10/10/2018	12:02:30	0.025
10/10/2018	12:03:30	0.026
10/10/2018	12:04:30	0.026
10/10/2018	12:05:30	0.026
10/10/2018	12:06:30	0.027
10/10/2018	12:07:30	0.026
10/10/2018	12:08:30	0.027
10/10/2018	12:09:30	0.026
10/10/2018	12:10:30	0.026
10/10/2018	12:11:30	0.027
10/10/2018	12:12:30	0.026
10/10/2018	12:13:30	0.027
10/10/2018	12:14:30	0.028

10/10/2018	12:15:30	0.027
10/10/2018	12:16:30	0.027
10/10/2018	12:17:30	0.026
10/10/2018	12:18:30	0.028
10/10/2018	12:19:30	0.027
10/10/2018	12:20:30	0.028
10/10/2018	12:21:30	0.027
10/10/2018	12:22:30	0.034
10/10/2018	12:23:30	0.027
10/10/2018	12:24:30	0.027
10/10/2018	12:25:30	0.026
10/10/2018	12:26:30	0.027
10/10/2018	12:27:30	0.027
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10/10/2018	12:29:30	0.026
10/10/2018	12:30:30	0.026
10/10/2018	12:31:30	0.029
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10/10/2018	12:33:30	0.028
10/10/2018	12:34:30	0.028
10/10/2018	12:35:30	0.029
10/10/2018	12:36:30	0.027
10/10/2018	12:37:30	0.027
10/10/2018	12:38:30	0.027
10/10/2018	12:39:30	0.026
10/10/2018	12:40:30	0.027
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10/10/2018	12:43:30	0.031
10/10/2018	12:44:30	0.038
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10/10/2018	12:46:30	0.026
10/10/2018	12:47:30	0.026
10/10/2018	12:48:30	0.027
10/10/2018	12:49:30	0.027
10/10/2018	12:50:30	0.026
10/10/2018	12:51:30	0.027
10/10/2018	12:52:30	0.026
10/10/2018	12:53:30	0.025
10/10/2018	12:54:30	0.027
10/10/2018	12:55:30	0.026
10/10/2018	12:56:30	0.027
10/10/2018	12:57:30	0.029
10/10/2018	12:58:30	0.028
10/10/2018	12:59:30	0.027
10/10/2018	13:00:30	0.026
10/10/2018	13:01:30	0.03

10/10/2018	13:02:30	0.029
10/10/2018	13:03:30	0.028
10/10/2018	13:04:30	0.034
10/10/2018	13:05:30	0.042
10/10/2018	13:06:30	0.037
10/10/2018	13:07:30	0.03
10/10/2018	13:08:30	0.028
10/10/2018	13:09:30	0.034
10/10/2018	13:10:30	0.03
10/10/2018	13:11:30	0.029
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10/10/2018	13:13:30	0.03
10/10/2018	13:14:30	0.03
10/10/2018	13:15:30	0.029
10/10/2018	13:16:30	0.028
10/10/2018	13:17:30	0.061
10/10/2018	13:18:30	0.055
10/10/2018	13:19:30	0.043
10/10/2018	13:20:30	0.031
10/10/2018	13:21:30	0.028
10/10/2018	13:22:30	0.027
10/10/2018	13:23:30	0.027
10/10/2018	13:24:30	0.028
10/10/2018	13:25:30	0.029
10/10/2018	13:26:30	0.029
10/10/2018	13:27:30	0.027
10/10/2018	13:28:30	0.027
10/10/2018	13:29:30	0.028
10/10/2018	13:30:30	0.029
10/10/2018	13:31:30	0.028
10/10/2018	13:32:30	0.027
10/10/2018	13:33:30	0.028
10/10/2018	13:34:30	0.029
10/10/2018	13:35:30	0.029
10/10/2018	13:36:30	0.028
10/10/2018	13:37:30	0.028
10/10/2018	13:38:30	0.028
10/10/2018	13:39:30	0.034
10/10/2018	13:40:30	0.029
10/10/2018	13:41:30	0.03
10/10/2018	13:42:30	0.029
10/10/2018	13:43:30	0.027
10/10/2018	13:44:30	0.029
10/10/2018	13:45:30	0.027
10/10/2018	13:46:30	0.033
10/10/2018	13:47:30	0.034
10/10/2018	13:48:30	0.03

10/10/2018	13:49:30	0.03
10/10/2018	13:50:30	0.029
10/10/2018	13:51:30	0.03
10/10/2018	13:52:30	0.035
10/10/2018	13:53:30	0.034
10/10/2018	13:54:30	0.032
10/10/2018	13:55:30	0.033
10/10/2018	13:56:30	0.05
10/10/2018	13:57:30	0.042
10/10/2018	13:58:30	0.043
10/10/2018	13:59:30	0.034
10/10/2018	14:00:30	0.035
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10/10/2018	14:02:30	0.032
10/10/2018	14:03:30	0.036
10/10/2018	14:04:30	0.035
10/10/2018	14:05:30	0.033
10/10/2018	14:06:30	0.038
10/10/2018	14:07:30	0.043
10/10/2018	14:08:30	0.034
10/10/2018	14:09:30	0.034
10/10/2018	14:10:30	0.03
10/10/2018	14:11:30	0.031
10/10/2018	14:12:30	0.03
10/10/2018	14:13:30	0.031
10/10/2018	14:14:30	0.031
10/10/2018	14:15:30	0.03
10/10/2018	14:16:30	0.031
10/10/2018	14:17:30	0.03
10/10/2018	14:18:30	0.029
10/10/2018	14:19:30	0.028
10/10/2018	14:20:30	0.03
10/10/2018	14:21:30	0.029
10/10/2018	14:22:30	0.027
10/10/2018	14:23:30	0.027
10/10/2018	14:24:30	0.029
10/10/2018	14:25:30	0.03
10/10/2018	14:26:30	0.028
10/10/2018	14:27:30	0.03
10/10/2018	14:28:30	0.031
10/10/2018	14:29:30	0.029
10/10/2018	14:30:30	0.031
10/10/2018	14:31:30	0.028
10/10/2018	14:32:30	0.027
10/10/2018	14:33:30	0.026
10/10/2018	14:34:30	0.026
10/10/2018	14:35:30	0.026

10/10/2018	14:36:30	0.025
10/10/2018	14:37:30	0.026
10/10/2018	14:38:30	0.029
10/10/2018	14:39:30	0.027
10/10/2018	14:40:30	0.027
10/10/2018	14:41:30	0.025
10/10/2018	14:42:30	0.025
10/10/2018	14:43:30	0.026
10/10/2018	14:44:30	0.025
10/10/2018	14:45:30	0.029
10/10/2018	14:46:30	0.035
10/10/2018	14:47:30	0.03
10/10/2018	14:48:30	0.037
10/10/2018	14:49:30	0.061
10/10/2018	14:50:30	0.037
10/10/2018	14:51:30	0.028
10/10/2018	14:52:30	0.026
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10/10/2018	14:55:30	0.024
10/10/2018	14:56:30	0.026
10/10/2018	14:57:30	0.026
10/10/2018	14:58:30	0.026
10/10/2018	14:59:30	0.027
10/10/2018	15:00:30	0.026
10/10/2018	15:01:30	0.025
10/10/2018	15:02:30	0.032
10/10/2018	15:03:30	0.031
10/10/2018	15:04:30	0.033
10/10/2018	15:05:30	0.026
10/10/2018	15:06:30	0.025
10/10/2018	15:07:30	0.026
10/10/2018	15:08:30	0.036
10/10/2018	15:09:30	0.025
10/10/2018	15:10:30	0.03
10/10/2018	15:11:30	0.03
10/10/2018	15:12:30	0.031
10/10/2018	15:13:30	0.035
10/10/2018	15:14:30	0.031
10/10/2018	15:15:30	0.037
10/10/2018	15:16:30	0.033
10/10/2018	15:17:30	0.029
10/10/2018	15:18:30	0.028
10/10/2018	15:19:30	0.03
10/10/2018	15:20:30	0.028
10/10/2018	15:21:30	0.034
10/10/2018	15:22:30	0.029

10/10/2018	15:23:30	0.027
10/10/2018	15:24:30	0.039
10/10/2018	15:25:30	0.029
10/10/2018	15:26:30	0.032
10/10/2018	15:27:30	0.034
10/10/2018	15:28:30	0.025
10/10/2018	15:29:30	0.022
10/10/2018	15:30:30	0.022
10/10/2018	15:31:30	0.024
10/10/2018	15:32:30	0.024
10/10/2018	15:33:30	0.025
10/10/2018	15:34:30	0.025
10/10/2018	15:35:30	0.028
10/10/2018	15:36:30	0.023
10/10/2018	15:37:30	0.03
10/10/2018	15:38:30	0.026
10/10/2018	15:39:30	0.022
10/10/2018	15:40:30	0.023
10/10/2018	15:41:30	0.03
10/10/2018	15:42:30	0.024
10/10/2018	15:43:30	0.029
10/10/2018	15:44:30	0.023
10/10/2018	15:45:30	0.023
10/10/2018	15:46:30	0.022
10/10/2018	15:47:30	0.024
10/10/2018	15:48:30	0.023
10/10/2018	15:49:30	0.023
10/10/2018	15:50:30	0.027
10/10/2018	15:51:30	0.024
10/10/2018	15:52:30	0.023
10/10/2018	15:53:30	0.029
10/10/2018	15:54:30	0.024
10/10/2018	15:55:30	0.025
10/10/2018	15:56:30	0.021
10/10/2018	15:57:30	0.021
10/10/2018	15:58:30	0.021
10/10/2018	15:59:30	0.033
10/10/2018	16:00:30	0.024
10/10/2018	16:01:30	0.024
10/10/2018	16:02:30	0.022
10/10/2018	16:03:30	0.023
10/10/2018	16:04:30	0.023
10/10/2018	16:05:30	0.022
10/10/2018	16:06:30	0.021
10/10/2018	16:07:30	0.021
10/10/2018	16:08:30	0.022
10/10/2018	16:09:30	0.022



10/10/2018	16:10:30	0.023
10/10/2018	16:11:30	0.022
10/10/2018	16:12:30	0.024
10/10/2018	16:13:30	0.021
10/10/2018	16:14:30	0.023

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530151706  
 Test ID: 4  
 Test Abbreviation: Downwind\_101118  
 Start Date: 10/11/2018  
 Start Time: 7:55:54  
 Duration (dd:hh:mm:ss): 0:08:40:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 520  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.027  
 Minimum: 0.011  
 Time of Minimum: 15:09:54  
 Date of Minimum: 10/11/2018  
 Maximum: 0.12  
 Time of Maximum: 10:46:54  
 Date of Maximum: 10/11/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/11/2018	7:56:54	0.037
10/11/2018	7:57:54	0.048
10/11/2018	7:58:54	0.035
10/11/2018	7:59:54	0.036
10/11/2018	8:00:54	0.034
10/11/2018	8:01:54	0.034
10/11/2018	8:02:54	0.034
10/11/2018	8:03:54	0.034
10/11/2018	8:04:54	0.034
10/11/2018	8:05:54	0.035
10/11/2018	8:06:54	0.034
10/11/2018	8:07:54	0.034
10/11/2018	8:08:54	0.033
10/11/2018	8:09:54	0.033
10/11/2018	8:10:54	0.031
10/11/2018	8:11:54	0.034
10/11/2018	8:12:54	0.033
10/11/2018	8:13:54	0.033
10/11/2018	8:14:54	0.031
10/11/2018	8:15:54	0.033
10/11/2018	8:16:54	0.032

10/11/2018	8:17:54	0.034
10/11/2018	8:18:54	0.032
10/11/2018	8:19:54	0.029
10/11/2018	8:20:54	0.029
10/11/2018	8:21:54	0.03
10/11/2018	8:22:54	0.029
10/11/2018	8:23:54	0.036
10/11/2018	8:24:54	0.029
10/11/2018	8:25:54	0.029
10/11/2018	8:26:54	0.035
10/11/2018	8:27:54	0.032
10/11/2018	8:28:54	0.029
10/11/2018	8:29:54	0.031
10/11/2018	8:30:54	0.028
10/11/2018	8:31:54	0.027
10/11/2018	8:32:54	0.027
10/11/2018	8:33:54	0.027
10/11/2018	8:34:54	0.028
10/11/2018	8:35:54	0.031
10/11/2018	8:36:54	0.027
10/11/2018	8:37:54	0.027
10/11/2018	8:38:54	0.029
10/11/2018	8:39:54	0.028
10/11/2018	8:40:54	0.028
10/11/2018	8:41:54	0.028
10/11/2018	8:42:54	0.027
10/11/2018	8:43:54	0.027
10/11/2018	8:44:54	0.028
10/11/2018	8:45:54	0.028
10/11/2018	8:46:54	0.027
10/11/2018	8:47:54	0.028
10/11/2018	8:48:54	0.026
10/11/2018	8:49:54	0.027
10/11/2018	8:50:54	0.027
10/11/2018	8:51:54	0.027
10/11/2018	8:52:54	0.051
10/11/2018	8:53:54	0.029
10/11/2018	8:54:54	0.084
10/11/2018	8:55:54	0.062
10/11/2018	8:56:54	0.041
10/11/2018	8:57:54	0.029
10/11/2018	8:58:54	0.028
10/11/2018	8:59:54	0.03
10/11/2018	9:00:54	0.03
10/11/2018	9:01:54	0.029
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10/11/2018	9:03:54	0.047

10/11/2018	9:04:54	0.027
10/11/2018	9:05:54	0.053
10/11/2018	9:06:54	0.072
10/11/2018	9:07:54	0.028
10/11/2018	9:08:54	0.034
10/11/2018	9:09:54	0.03
10/11/2018	9:10:54	0.039
10/11/2018	9:11:54	0.029
10/11/2018	9:12:54	0.031
10/11/2018	9:13:54	0.03
10/11/2018	9:14:54	0.043
10/11/2018	9:15:54	0.042
10/11/2018	9:16:54	0.03
10/11/2018	9:17:54	0.037
10/11/2018	9:18:54	0.026
10/11/2018	9:19:54	0.027
10/11/2018	9:20:54	0.027
10/11/2018	9:21:54	0.027
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10/11/2018	9:26:54	0.027
10/11/2018	9:27:54	0.028
10/11/2018	9:28:54	0.028
10/11/2018	9:29:54	0.029
10/11/2018	9:30:54	0.027
10/11/2018	9:31:54	0.076
10/11/2018	9:32:54	0.026
10/11/2018	9:33:54	0.026
10/11/2018	9:34:54	0.026
10/11/2018	9:35:54	0.064
10/11/2018	9:36:54	0.032
10/11/2018	9:37:54	0.028
10/11/2018	9:38:54	0.03
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10/11/2018	10:54:54	0.023
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10/11/2018	10:56:54	0.024
10/11/2018	10:57:54	0.024
10/11/2018	10:58:54	0.024
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10/11/2018	11:02:54	0.024
10/11/2018	11:03:54	0.023
10/11/2018	11:04:54	0.024
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10/11/2018	15:49:54	0.013
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10/11/2018	16:01:54	0.014
10/11/2018	16:02:54	0.014
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10/11/2018	16:04:54	0.015
10/11/2018	16:05:54	0.014
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10/11/2018	16:18:54	0.015
10/11/2018	16:19:54	0.016
10/11/2018	16:20:54	0.016
10/11/2018	16:21:54	0.015
10/11/2018	16:22:54	0.015
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10/11/2018	16:24:54	0.015
10/11/2018	16:25:54	0.019
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10/11/2018	16:29:54	0.019
10/11/2018	16:30:54	0.015
10/11/2018	16:31:54	0.017
10/11/2018	16:32:54	0.015
10/11/2018	16:33:54	0.014
10/11/2018	16:34:54	0.013
10/11/2018	16:35:54	0.013

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530151706  
 Test ID: 5  
 Test Abbreviation: Downwind\_101218  
 Start Date: 10/12/2018  
 Start Time: 7:44:05  
 Duration (dd:hh:mm:ss): 0:06:30:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 390  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.007  
 Minimum: 0.003  
 Time of Minimum: 14:03:05  
 Date of Minimum: 10/12/2018  
 Maximum: 0.035  
 Time of Maximum: 10:45:05  
 Date of Maximum: 10/12/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/12/2018	7:45:05	0.012
10/12/2018	7:46:05	0.005
10/12/2018	7:47:05	0.005
10/12/2018	7:48:05	0.005
10/12/2018	7:49:05	0.006
10/12/2018	7:50:05	0.006
10/12/2018	7:51:05	0.006
10/12/2018	7:52:05	0.005
10/12/2018	7:53:05	0.005
10/12/2018	7:54:05	0.01
10/12/2018	7:55:05	0.005
10/12/2018	7:56:05	0.005
10/12/2018	7:57:05	0.009
10/12/2018	7:58:05	0.006
10/12/2018	7:59:05	0.009
10/12/2018	8:00:05	0.007
10/12/2018	8:01:05	0.008
10/12/2018	8:02:05	0.01
10/12/2018	8:03:05	0.007
10/12/2018	8:04:05	0.008
10/12/2018	8:05:05	0.012

10/12/2018	8:06:05	0.012
10/12/2018	8:07:05	0.008
10/12/2018	8:08:05	0.007
10/12/2018	8:09:05	0.007
10/12/2018	8:10:05	0.006
10/12/2018	8:11:05	0.008
10/12/2018	8:12:05	0.012
10/12/2018	8:13:05	0.013
10/12/2018	8:14:05	0.006
10/12/2018	8:15:05	0.008
10/12/2018	8:16:05	0.007
10/12/2018	8:17:05	0.007
10/12/2018	8:18:05	0.007
10/12/2018	8:19:05	0.009
10/12/2018	8:20:05	0.006
10/12/2018	8:21:05	0.007
10/12/2018	8:22:05	0.005
10/12/2018	8:23:05	0.006
10/12/2018	8:24:05	0.006
10/12/2018	8:25:05	0.005
10/12/2018	8:26:05	0.005
10/12/2018	8:27:05	0.006
10/12/2018	8:28:05	0.006
10/12/2018	8:29:05	0.006
10/12/2018	8:30:05	0.006
10/12/2018	8:31:05	0.005
10/12/2018	8:32:05	0.005
10/12/2018	8:33:05	0.006
10/12/2018	8:34:05	0.006
10/12/2018	8:35:05	0.006
10/12/2018	8:36:05	0.005
10/12/2018	8:37:05	0.006
10/12/2018	8:38:05	0.006
10/12/2018	8:39:05	0.006
10/12/2018	8:40:05	0.007
10/12/2018	8:41:05	0.006
10/12/2018	8:42:05	0.007
10/12/2018	8:43:05	0.007
10/12/2018	8:44:05	0.006
10/12/2018	8:45:05	0.006
10/12/2018	8:46:05	0.006
10/12/2018	8:47:05	0.007
10/12/2018	8:48:05	0.008
10/12/2018	8:49:05	0.006
10/12/2018	8:50:05	0.006
10/12/2018	8:51:05	0.008
10/12/2018	8:52:05	0.007

10/12/2018	8:53:05	0.006
10/12/2018	8:54:05	0.007
10/12/2018	8:55:05	0.009
10/12/2018	8:56:05	0.007
10/12/2018	8:57:05	0.006
10/12/2018	8:58:05	0.009
10/12/2018	8:59:05	0.005
10/12/2018	9:00:05	0.011
10/12/2018	9:01:05	0.016
10/12/2018	9:02:05	0.007
10/12/2018	9:03:05	0.006
10/12/2018	9:04:05	0.007
10/12/2018	9:05:05	0.005
10/12/2018	9:06:05	0.005
10/12/2018	9:07:05	0.004
10/12/2018	9:08:05	0.005
10/12/2018	9:09:05	0.01
10/12/2018	9:10:05	0.014
10/12/2018	9:11:05	0.007
10/12/2018	9:12:05	0.005
10/12/2018	9:13:05	0.007
10/12/2018	9:14:05	0.008
10/12/2018	9:15:05	0.009
10/12/2018	9:16:05	0.008
10/12/2018	9:17:05	0.009
10/12/2018	9:18:05	0.006
10/12/2018	9:19:05	0.008
10/12/2018	9:20:05	0.007
10/12/2018	9:21:05	0.006
10/12/2018	9:22:05	0.006
10/12/2018	9:23:05	0.006
10/12/2018	9:24:05	0.005
10/12/2018	9:25:05	0.006
10/12/2018	9:26:05	0.007
10/12/2018	9:27:05	0.006
10/12/2018	9:28:05	0.005
10/12/2018	9:29:05	0.005
10/12/2018	9:30:05	0.006
10/12/2018	9:31:05	0.01
10/12/2018	9:32:05	0.005
10/12/2018	9:33:05	0.005
10/12/2018	9:34:05	0.006
10/12/2018	9:35:05	0.005
10/12/2018	9:36:05	0.006
10/12/2018	9:37:05	0.006
10/12/2018	9:38:05	0.006
10/12/2018	9:39:05	0.006



10/12/2018	9:40:05	0.005
10/12/2018	9:41:05	0.005
10/12/2018	9:42:05	0.006
10/12/2018	9:43:05	0.007
10/12/2018	9:44:05	0.007
10/12/2018	9:45:05	0.006
10/12/2018	9:46:05	0.006
10/12/2018	9:47:05	0.006
10/12/2018	9:48:05	0.005
10/12/2018	9:49:05	0.006
10/12/2018	9:50:05	0.006
10/12/2018	9:51:05	0.005
10/12/2018	9:52:05	0.005
10/12/2018	9:53:05	0.006
10/12/2018	9:54:05	0.008
10/12/2018	9:55:05	0.006
10/12/2018	9:56:05	0.01
10/12/2018	9:57:05	0.006
10/12/2018	9:58:05	0.008
10/12/2018	9:59:05	0.006
10/12/2018	10:00:05	0.006
10/12/2018	10:01:05	0.007
10/12/2018	10:02:05	0.008
10/12/2018	10:03:05	0.006
10/12/2018	10:04:05	0.006
10/12/2018	10:05:05	0.006
10/12/2018	10:06:05	0.006
10/12/2018	10:07:05	0.007
10/12/2018	10:08:05	0.008
10/12/2018	10:09:05	0.009
10/12/2018	10:10:05	0.006
10/12/2018	10:11:05	0.011
10/12/2018	10:12:05	0.008
10/12/2018	10:13:05	0.01
10/12/2018	10:14:05	0.009
10/12/2018	10:15:05	0.01
10/12/2018	10:16:05	0.009
10/12/2018	10:17:05	0.007
10/12/2018	10:18:05	0.007
10/12/2018	10:19:05	0.006
10/12/2018	10:20:05	0.007
10/12/2018	10:21:05	0.006
10/12/2018	10:22:05	0.008
10/12/2018	10:23:05	0.005
10/12/2018	10:24:05	0.006
10/12/2018	10:25:05	0.008
10/12/2018	10:26:05	0.01

10/12/2018	10:27:05	0.008
10/12/2018	10:28:05	0.007
10/12/2018	10:29:05	0.009
10/12/2018	10:30:05	0.006
10/12/2018	10:31:05	0.009
10/12/2018	10:32:05	0.008
10/12/2018	10:33:05	0.009
10/12/2018	10:34:05	0.01
10/12/2018	10:35:05	0.01
10/12/2018	10:36:05	0.006
10/12/2018	10:37:05	0.008
10/12/2018	10:38:05	0.007
10/12/2018	10:39:05	0.004
10/12/2018	10:40:05	0.004
10/12/2018	10:41:05	0.006
10/12/2018	10:42:05	0.011
10/12/2018	10:43:05	0.006
10/12/2018	10:44:05	0.006
10/12/2018	10:45:05	0.035
10/12/2018	10:46:05	0.026
10/12/2018	10:47:05	0.009
10/12/2018	10:48:05	0.006
10/12/2018	10:49:05	0.005
10/12/2018	10:50:05	0.005
10/12/2018	10:51:05	0.005
10/12/2018	10:52:05	0.009
10/12/2018	10:53:05	0.02
10/12/2018	10:54:05	0.009
10/12/2018	10:55:05	0.01
10/12/2018	10:56:05	0.007
10/12/2018	10:57:05	0.006
10/12/2018	10:58:05	0.008
10/12/2018	10:59:05	0.009
10/12/2018	11:00:05	0.005
10/12/2018	11:01:05	0.008
10/12/2018	11:02:05	0.008
10/12/2018	11:03:05	0.008
10/12/2018	11:04:05	0.007
10/12/2018	11:05:05	0.008
10/12/2018	11:06:05	0.012
10/12/2018	11:07:05	0.008
10/12/2018	11:08:05	0.009
10/12/2018	11:09:05	0.007
10/12/2018	11:10:05	0.006
10/12/2018	11:11:05	0.01
10/12/2018	11:12:05	0.009
10/12/2018	11:13:05	0.008

10/12/2018	11:14:05	0.007
10/12/2018	11:15:05	0.009
10/12/2018	11:16:05	0.009
10/12/2018	11:17:05	0.006
10/12/2018	11:18:05	0.006
10/12/2018	11:19:05	0.008
10/12/2018	11:20:05	0.007
10/12/2018	11:21:05	0.019
10/12/2018	11:22:05	0.007
10/12/2018	11:23:05	0.027
10/12/2018	11:24:05	0.008
10/12/2018	11:25:05	0.005
10/12/2018	11:26:05	0.008
10/12/2018	11:27:05	0.006
10/12/2018	11:28:05	0.008
10/12/2018	11:29:05	0.007
10/12/2018	11:30:05	0.004
10/12/2018	11:31:05	0.004
10/12/2018	11:32:05	0.012
10/12/2018	11:33:05	0.009
10/12/2018	11:34:05	0.009
10/12/2018	11:35:05	0.008
10/12/2018	11:36:05	0.006
10/12/2018	11:37:05	0.007
10/12/2018	11:38:05	0.015
10/12/2018	11:39:05	0.006
10/12/2018	11:40:05	0.004
10/12/2018	11:41:05	0.005
10/12/2018	11:42:05	0.004
10/12/2018	11:43:05	0.006
10/12/2018	11:44:05	0.007
10/12/2018	11:45:05	0.01
10/12/2018	11:46:05	0.005
10/12/2018	11:47:05	0.004
10/12/2018	11:48:05	0.01
10/12/2018	11:49:05	0.012
10/12/2018	11:50:05	0.007
10/12/2018	11:51:05	0.011
10/12/2018	11:52:05	0.009
10/12/2018	11:53:05	0.006
10/12/2018	11:54:05	0.014
10/12/2018	11:55:05	0.009
10/12/2018	11:56:05	0.005
10/12/2018	11:57:05	0.024
10/12/2018	11:58:05	0.01
10/12/2018	11:59:05	0.009
10/12/2018	12:00:05	0.012

10/12/2018	12:01:05	0.016
10/12/2018	12:02:05	0.011
10/12/2018	12:03:05	0.012
10/12/2018	12:04:05	0.01
10/12/2018	12:05:05	0.007
10/12/2018	12:06:05	0.017
10/12/2018	12:07:05	0.012
10/12/2018	12:08:05	0.009
10/12/2018	12:09:05	0.005
10/12/2018	12:10:05	0.007
10/12/2018	12:11:05	0.005
10/12/2018	12:12:05	0.004
10/12/2018	12:13:05	0.005
10/12/2018	12:14:05	0.005
10/12/2018	12:15:05	0.007
10/12/2018	12:16:05	0.005
10/12/2018	12:17:05	0.005
10/12/2018	12:18:05	0.009
10/12/2018	12:19:05	0.006
10/12/2018	12:20:05	0.005
10/12/2018	12:21:05	0.008
10/12/2018	12:22:05	0.007
10/12/2018	12:23:05	0.006
10/12/2018	12:24:05	0.007
10/12/2018	12:25:05	0.008
10/12/2018	12:26:05	0.005
10/12/2018	12:27:05	0.008
10/12/2018	12:28:05	0.007
10/12/2018	12:29:05	0.006
10/12/2018	12:30:05	0.008
10/12/2018	12:31:05	0.007
10/12/2018	12:32:05	0.009
10/12/2018	12:33:05	0.008
10/12/2018	12:34:05	0.005
10/12/2018	12:35:05	0.006
10/12/2018	12:36:05	0.008
10/12/2018	12:37:05	0.013
10/12/2018	12:38:05	0.01
10/12/2018	12:39:05	0.012
10/12/2018	12:40:05	0.008
10/12/2018	12:41:05	0.008
10/12/2018	12:42:05	0.007
10/12/2018	12:43:05	0.007
10/12/2018	12:44:05	0.011
10/12/2018	12:45:05	0.009
10/12/2018	12:46:05	0.005
10/12/2018	12:47:05	0.006

10/12/2018	12:48:05	0.011
10/12/2018	12:49:05	0.005
10/12/2018	12:50:05	0.005
10/12/2018	12:51:05	0.006
10/12/2018	12:52:05	0.01
10/12/2018	12:53:05	0.007
10/12/2018	12:54:05	0.005
10/12/2018	12:55:05	0.007
10/12/2018	12:56:05	0.018
10/12/2018	12:57:05	0.012
10/12/2018	12:58:05	0.006
10/12/2018	12:59:05	0.005
10/12/2018	13:00:05	0.007
10/12/2018	13:01:05	0.009
10/12/2018	13:02:05	0.008
10/12/2018	13:03:05	0.009
10/12/2018	13:04:05	0.009
10/12/2018	13:05:05	0.005
10/12/2018	13:06:05	0.006
10/12/2018	13:07:05	0.006
10/12/2018	13:08:05	0.008
10/12/2018	13:09:05	0.006
10/12/2018	13:10:05	0.006
10/12/2018	13:11:05	0.005
10/12/2018	13:12:05	0.007
10/12/2018	13:13:05	0.006
10/12/2018	13:14:05	0.007
10/12/2018	13:15:05	0.007
10/12/2018	13:16:05	0.005
10/12/2018	13:17:05	0.005
10/12/2018	13:18:05	0.027
10/12/2018	13:19:05	0.01
10/12/2018	13:20:05	0.009
10/12/2018	13:21:05	0.01
10/12/2018	13:22:05	0.007
10/12/2018	13:23:05	0.009
10/12/2018	13:24:05	0.008
10/12/2018	13:25:05	0.006
10/12/2018	13:26:05	0.008
10/12/2018	13:27:05	0.005
10/12/2018	13:28:05	0.007
10/12/2018	13:29:05	0.006
10/12/2018	13:30:05	0.007
10/12/2018	13:31:05	0.005
10/12/2018	13:32:05	0.006
10/12/2018	13:33:05	0.006
10/12/2018	13:34:05	0.023

10/12/2018	13:35:05	0.008
10/12/2018	13:36:05	0.007
10/12/2018	13:37:05	0.007
10/12/2018	13:38:05	0.006
10/12/2018	13:39:05	0.006
10/12/2018	13:40:05	0.006
10/12/2018	13:41:05	0.008
10/12/2018	13:42:05	0.006
10/12/2018	13:43:05	0.006
10/12/2018	13:44:05	0.006
10/12/2018	13:45:05	0.006
10/12/2018	13:46:05	0.006
10/12/2018	13:47:05	0.007
10/12/2018	13:48:05	0.006
10/12/2018	13:49:05	0.007
10/12/2018	13:50:05	0.005
10/12/2018	13:51:05	0.005
10/12/2018	13:52:05	0.005
10/12/2018	13:53:05	0.005
10/12/2018	13:54:05	0.005
10/12/2018	13:55:05	0.005
10/12/2018	13:56:05	0.005
10/12/2018	13:57:05	0.007
10/12/2018	13:58:05	0.005
10/12/2018	13:59:05	0.004
10/12/2018	14:00:05	0.005
10/12/2018	14:01:05	0.006
10/12/2018	14:02:05	0.004
10/12/2018	14:03:05	0.003
10/12/2018	14:04:05	0.004
10/12/2018	14:05:05	0.004
10/12/2018	14:06:05	0.005
10/12/2018	14:07:05	0.007
10/12/2018	14:08:05	0.004
10/12/2018	14:09:05	0.006
10/12/2018	14:10:05	0.004
10/12/2018	14:11:05	0.004
10/12/2018	14:12:05	0.005
10/12/2018	14:13:05	0.004
10/12/2018	14:14:05	0.003

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530151706  
Test ID: 6  
Test Abbreviation: Downwind\_101518  
Start Date: 10/15/2018  
Start Time: 7:42:56  
Duration (dd:hh:mm:ss): 0:08:01:00  
Log Interval (mm:ss): 1:00  
Number of points: 481  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.022  
Minimum: 0.009  
Time of Minimum: 13:31:56  
Date of Minimum: 10/15/2018  
Maximum: 0.084  
Time of Maximum: 12:09:56  
Date of Maximum: 10/15/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
10/15/2018	7:43:56	0.037
10/15/2018	7:44:56	0.036
10/15/2018	7:45:56	0.035
10/15/2018	7:46:56	0.036
10/15/2018	7:47:56	0.035
10/15/2018	7:48:56	0.034
10/15/2018	7:49:56	0.034
10/15/2018	7:50:56	0.034
10/15/2018	7:51:56	0.034
10/15/2018	7:52:56	0.034
10/15/2018	7:53:56	0.034
10/15/2018	7:54:56	0.034
10/15/2018	7:55:56	0.035
10/15/2018	7:56:56	0.036
10/15/2018	7:57:56	0.039
10/15/2018	7:58:56	0.037
10/15/2018	7:59:56	0.038
10/15/2018	8:00:56	0.038
10/15/2018	8:01:56	0.039
10/15/2018	8:02:56	0.039
10/15/2018	8:03:56	0.04

10/15/2018	8:04:56	0.039
10/15/2018	8:05:56	0.04
10/15/2018	8:06:56	0.041
10/15/2018	8:07:56	0.04
10/15/2018	8:08:56	0.04
10/15/2018	8:09:56	0.04
10/15/2018	8:10:56	0.04
10/15/2018	8:11:56	0.04
10/15/2018	8:12:56	0.039
10/15/2018	8:13:56	0.039
10/15/2018	8:14:56	0.04
10/15/2018	8:15:56	0.041
10/15/2018	8:16:56	0.04
10/15/2018	8:17:56	0.041
10/15/2018	8:18:56	0.041
10/15/2018	8:19:56	0.042
10/15/2018	8:20:56	0.043
10/15/2018	8:21:56	0.043
10/15/2018	8:22:56	0.044
10/15/2018	8:23:56	0.044
10/15/2018	8:24:56	0.044
10/15/2018	8:25:56	0.044
10/15/2018	8:26:56	0.042
10/15/2018	8:27:56	0.04
10/15/2018	8:28:56	0.04
10/15/2018	8:29:56	0.038
10/15/2018	8:30:56	0.036
10/15/2018	8:31:56	0.036
10/15/2018	8:32:56	0.037
10/15/2018	8:33:56	0.037
10/15/2018	8:34:56	0.036
10/15/2018	8:35:56	0.037
10/15/2018	8:36:56	0.035
10/15/2018	8:37:56	0.036
10/15/2018	8:38:56	0.035
10/15/2018	8:39:56	0.035
10/15/2018	8:40:56	0.036
10/15/2018	8:41:56	0.034
10/15/2018	8:42:56	0.033
10/15/2018	8:43:56	0.033
10/15/2018	8:44:56	0.034
10/15/2018	8:45:56	0.032
10/15/2018	8:46:56	0.034
10/15/2018	8:47:56	0.035
10/15/2018	8:48:56	0.034
10/15/2018	8:49:56	0.033
10/15/2018	8:50:56	0.033



10/15/2018	8:51:56	0.033
10/15/2018	8:52:56	0.032
10/15/2018	8:53:56	0.031
10/15/2018	8:54:56	0.036
10/15/2018	8:55:56	0.035
10/15/2018	8:56:56	0.032
10/15/2018	8:57:56	0.032
10/15/2018	8:58:56	0.031
10/15/2018	8:59:56	0.031
10/15/2018	9:00:56	0.031
10/15/2018	9:01:56	0.031
10/15/2018	9:02:56	0.031
10/15/2018	9:03:56	0.039
10/15/2018	9:04:56	0.032
10/15/2018	9:05:56	0.031
10/15/2018	9:06:56	0.032
10/15/2018	9:07:56	0.031
10/15/2018	9:08:56	0.03
10/15/2018	9:09:56	0.031
10/15/2018	9:10:56	0.031
10/15/2018	9:11:56	0.031
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10/15/2018	9:13:56	0.03
10/15/2018	9:14:56	0.03
10/15/2018	9:15:56	0.03
10/15/2018	9:16:56	0.03
10/15/2018	9:17:56	0.03
10/15/2018	9:18:56	0.029
10/15/2018	9:19:56	0.029
10/15/2018	9:20:56	0.029
10/15/2018	9:21:56	0.029
10/15/2018	9:22:56	0.029
10/15/2018	9:23:56	0.029
10/15/2018	9:24:56	0.031
10/15/2018	9:25:56	0.029
10/15/2018	9:26:56	0.029
10/15/2018	9:27:56	0.03
10/15/2018	9:28:56	0.028
10/15/2018	9:29:56	0.03
10/15/2018	9:30:56	0.03
10/15/2018	9:31:56	0.028
10/15/2018	9:32:56	0.028
10/15/2018	9:33:56	0.026
10/15/2018	9:34:56	0.027
10/15/2018	9:35:56	0.026
10/15/2018	9:36:56	0.027
10/15/2018	9:37:56	0.027

10/15/2018	9:38:56	0.027
10/15/2018	9:39:56	0.027
10/15/2018	9:40:56	0.026
10/15/2018	9:41:56	0.027
10/15/2018	9:42:56	0.029
10/15/2018	9:43:56	0.029
10/15/2018	9:44:56	0.027
10/15/2018	9:45:56	0.026
10/15/2018	9:46:56	0.025
10/15/2018	9:47:56	0.026
10/15/2018	9:48:56	0.027
10/15/2018	9:49:56	0.026
10/15/2018	9:50:56	0.025
10/15/2018	9:51:56	0.025
10/15/2018	9:52:56	0.025
10/15/2018	9:53:56	0.025
10/15/2018	9:54:56	0.024
10/15/2018	9:55:56	0.025
10/15/2018	9:56:56	0.025
10/15/2018	9:57:56	0.024
10/15/2018	9:58:56	0.024
10/15/2018	9:59:56	0.024
10/15/2018	10:00:56	0.024
10/15/2018	10:01:56	0.024
10/15/2018	10:02:56	0.023
10/15/2018	10:03:56	0.023
10/15/2018	10:04:56	0.023
10/15/2018	10:05:56	0.025
10/15/2018	10:06:56	0.024
10/15/2018	10:07:56	0.024
10/15/2018	10:08:56	0.023
10/15/2018	10:09:56	0.023
10/15/2018	10:10:56	0.023
10/15/2018	10:11:56	0.023
10/15/2018	10:12:56	0.021
10/15/2018	10:13:56	0.021
10/15/2018	10:14:56	0.021
10/15/2018	10:15:56	0.02
10/15/2018	10:16:56	0.02
10/15/2018	10:17:56	0.02
10/15/2018	10:18:56	0.021
10/15/2018	10:19:56	0.02
10/15/2018	10:20:56	0.019
10/15/2018	10:21:56	0.019
10/15/2018	10:22:56	0.019
10/15/2018	10:23:56	0.018
10/15/2018	10:24:56	0.019

10/15/2018	10:25:56	0.018
10/15/2018	10:26:56	0.018
10/15/2018	10:27:56	0.017
10/15/2018	10:28:56	0.017
10/15/2018	10:29:56	0.017
10/15/2018	10:30:56	0.016
10/15/2018	10:31:56	0.016
10/15/2018	10:32:56	0.016
10/15/2018	10:33:56	0.015
10/15/2018	10:34:56	0.015
10/15/2018	10:35:56	0.015
10/15/2018	10:36:56	0.015
10/15/2018	10:37:56	0.017
10/15/2018	10:38:56	0.015
10/15/2018	10:39:56	0.015
10/15/2018	10:40:56	0.016
10/15/2018	10:41:56	0.016
10/15/2018	10:42:56	0.016
10/15/2018	10:43:56	0.022
10/15/2018	10:44:56	0.018
10/15/2018	10:45:56	0.017
10/15/2018	10:46:56	0.016
10/15/2018	10:47:56	0.016
10/15/2018	10:48:56	0.016
10/15/2018	10:49:56	0.016
10/15/2018	10:50:56	0.017
10/15/2018	10:51:56	0.016
10/15/2018	10:52:56	0.016
10/15/2018	10:53:56	0.016
10/15/2018	10:54:56	0.016
10/15/2018	10:55:56	0.016
10/15/2018	10:56:56	0.016
10/15/2018	10:57:56	0.016
10/15/2018	10:58:56	0.016
10/15/2018	10:59:56	0.016
10/15/2018	11:00:56	0.016
10/15/2018	11:01:56	0.019
10/15/2018	11:02:56	0.017
10/15/2018	11:03:56	0.017
10/15/2018	11:04:56	0.017
10/15/2018	11:05:56	0.017
10/15/2018	11:06:56	0.016
10/15/2018	11:07:56	0.017
10/15/2018	11:08:56	0.017
10/15/2018	11:09:56	0.017
10/15/2018	11:10:56	0.016
10/15/2018	11:11:56	0.016

10/15/2018	11:12:56	0.017
10/15/2018	11:13:56	0.019
10/15/2018	11:14:56	0.023
10/15/2018	11:15:56	0.019
10/15/2018	11:16:56	0.048
10/15/2018	11:17:56	0.023
10/15/2018	11:18:56	0.019
10/15/2018	11:19:56	0.017
10/15/2018	11:20:56	0.016
10/15/2018	11:21:56	0.015
10/15/2018	11:22:56	0.016
10/15/2018	11:23:56	0.016
10/15/2018	11:24:56	0.016
10/15/2018	11:25:56	0.016
10/15/2018	11:26:56	0.015
10/15/2018	11:27:56	0.015
10/15/2018	11:28:56	0.029
10/15/2018	11:29:56	0.017
10/15/2018	11:30:56	0.015
10/15/2018	11:31:56	0.015
10/15/2018	11:32:56	0.016
10/15/2018	11:33:56	0.016
10/15/2018	11:34:56	0.015
10/15/2018	11:35:56	0.015
10/15/2018	11:36:56	0.014
10/15/2018	11:37:56	0.015
10/15/2018	11:38:56	0.014
10/15/2018	11:39:56	0.014
10/15/2018	11:40:56	0.017
10/15/2018	11:41:56	0.016
10/15/2018	11:42:56	0.014
10/15/2018	11:43:56	0.014
10/15/2018	11:44:56	0.014
10/15/2018	11:45:56	0.014
10/15/2018	11:46:56	0.014
10/15/2018	11:47:56	0.013
10/15/2018	11:48:56	0.014
10/15/2018	11:49:56	0.015
10/15/2018	11:50:56	0.014
10/15/2018	11:51:56	0.013
10/15/2018	11:52:56	0.013
10/15/2018	11:53:56	0.014
10/15/2018	11:54:56	0.013
10/15/2018	11:55:56	0.012
10/15/2018	11:56:56	0.012
10/15/2018	11:57:56	0.012
10/15/2018	11:58:56	0.012

10/15/2018	11:59:56	0.012
10/15/2018	12:00:56	0.012
10/15/2018	12:01:56	0.011
10/15/2018	12:02:56	0.011
10/15/2018	12:03:56	0.011
10/15/2018	12:04:56	0.011
10/15/2018	12:05:56	0.012
10/15/2018	12:06:56	0.012
10/15/2018	12:07:56	0.017
10/15/2018	12:08:56	0.035
10/15/2018	12:09:56	0.084
10/15/2018	12:10:56	0.022
10/15/2018	12:11:56	0.024
10/15/2018	12:12:56	0.031
10/15/2018	12:13:56	0.017
10/15/2018	12:14:56	0.02
10/15/2018	12:15:56	0.039
10/15/2018	12:16:56	0.031
10/15/2018	12:17:56	0.029
10/15/2018	12:18:56	0.01
10/15/2018	12:19:56	0.011
10/15/2018	12:20:56	0.012
10/15/2018	12:21:56	0.011
10/15/2018	12:22:56	0.01
10/15/2018	12:23:56	0.011
10/15/2018	12:24:56	0.011
10/15/2018	12:25:56	0.01
10/15/2018	12:26:56	0.011
10/15/2018	12:27:56	0.011
10/15/2018	12:28:56	0.011
10/15/2018	12:29:56	0.011
10/15/2018	12:30:56	0.011
10/15/2018	12:31:56	0.01
10/15/2018	12:32:56	0.011
10/15/2018	12:33:56	0.011
10/15/2018	12:34:56	0.011
10/15/2018	12:35:56	0.011
10/15/2018	12:36:56	0.011
10/15/2018	12:37:56	0.011
10/15/2018	12:38:56	0.012
10/15/2018	12:39:56	0.012
10/15/2018	12:40:56	0.012
10/15/2018	12:41:56	0.012
10/15/2018	12:42:56	0.013
10/15/2018	12:43:56	0.012
10/15/2018	12:44:56	0.011
10/15/2018	12:45:56	0.012

10/15/2018	12:46:56	0.015
10/15/2018	12:47:56	0.013
10/15/2018	12:48:56	0.012
10/15/2018	12:49:56	0.012
10/15/2018	12:50:56	0.012
10/15/2018	12:51:56	0.012
10/15/2018	12:52:56	0.012
10/15/2018	12:53:56	0.014
10/15/2018	12:54:56	0.012
10/15/2018	12:55:56	0.011
10/15/2018	12:56:56	0.012
10/15/2018	12:57:56	0.012
10/15/2018	12:58:56	0.013
10/15/2018	12:59:56	0.011
10/15/2018	13:00:56	0.011
10/15/2018	13:01:56	0.011
10/15/2018	13:02:56	0.011
10/15/2018	13:03:56	0.012
10/15/2018	13:04:56	0.011
10/15/2018	13:05:56	0.012
10/15/2018	13:06:56	0.011
10/15/2018	13:07:56	0.011
10/15/2018	13:08:56	0.012
10/15/2018	13:09:56	0.011
10/15/2018	13:10:56	0.012
10/15/2018	13:11:56	0.012
10/15/2018	13:12:56	0.011
10/15/2018	13:13:56	0.011
10/15/2018	13:14:56	0.012
10/15/2018	13:15:56	0.014
10/15/2018	13:16:56	0.057
10/15/2018	13:17:56	0.017
10/15/2018	13:18:56	0.022
10/15/2018	13:19:56	0.016
10/15/2018	13:20:56	0.015
10/15/2018	13:21:56	0.021
10/15/2018	13:22:56	0.037
10/15/2018	13:23:56	0.043
10/15/2018	13:24:56	0.038
10/15/2018	13:25:56	0.031
10/15/2018	13:26:56	0.015
10/15/2018	13:27:56	0.015
10/15/2018	13:28:56	0.014
10/15/2018	13:29:56	0.017
10/15/2018	13:30:56	0.011
10/15/2018	13:31:56	0.009
10/15/2018	13:32:56	0.01

10/15/2018	13:33:56	0.01
10/15/2018	13:34:56	0.01
10/15/2018	13:35:56	0.013
10/15/2018	13:36:56	0.012
10/15/2018	13:37:56	0.013
10/15/2018	13:38:56	0.011
10/15/2018	13:39:56	0.01
10/15/2018	13:40:56	0.01
10/15/2018	13:41:56	0.01
10/15/2018	13:42:56	0.011
10/15/2018	13:43:56	0.01
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10/15/2018	13:46:56	0.011
10/15/2018	13:47:56	0.015
10/15/2018	13:48:56	0.012
10/15/2018	13:49:56	0.012
10/15/2018	13:50:56	0.01
10/15/2018	13:51:56	0.01
10/15/2018	13:52:56	0.01
10/15/2018	13:53:56	0.011
10/15/2018	13:54:56	0.01
10/15/2018	13:55:56	0.01
10/15/2018	13:56:56	0.011
10/15/2018	13:57:56	0.012
10/15/2018	13:58:56	0.012
10/15/2018	13:59:56	0.011
10/15/2018	14:00:56	0.011
10/15/2018	14:01:56	0.011
10/15/2018	14:02:56	0.012
10/15/2018	14:03:56	0.011
10/15/2018	14:04:56	0.013
10/15/2018	14:05:56	0.011
10/15/2018	14:06:56	0.012
10/15/2018	14:07:56	0.013
10/15/2018	14:08:56	0.016
10/15/2018	14:09:56	0.012
10/15/2018	14:10:56	0.012
10/15/2018	14:11:56	0.011
10/15/2018	14:12:56	0.012
10/15/2018	14:13:56	0.01
10/15/2018	14:14:56	0.012
10/15/2018	14:15:56	0.015
10/15/2018	14:16:56	0.018
10/15/2018	14:17:56	0.012
10/15/2018	14:18:56	0.013
10/15/2018	14:19:56	0.013

10/15/2018	14:20:56	0.011
10/15/2018	14:21:56	0.011
10/15/2018	14:22:56	0.013
10/15/2018	14:23:56	0.013
10/15/2018	14:24:56	0.012
10/15/2018	14:25:56	0.013
10/15/2018	14:26:56	0.014
10/15/2018	14:27:56	0.013
10/15/2018	14:28:56	0.013
10/15/2018	14:29:56	0.014
10/15/2018	14:30:56	0.014
10/15/2018	14:31:56	0.014
10/15/2018	14:32:56	0.015
10/15/2018	14:33:56	0.015
10/15/2018	14:34:56	0.017
10/15/2018	14:35:56	0.06
10/15/2018	14:36:56	0.017
10/15/2018	14:37:56	0.021
10/15/2018	14:38:56	0.032
10/15/2018	14:39:56	0.024
10/15/2018	14:40:56	0.021
10/15/2018	14:41:56	0.032
10/15/2018	14:42:56	0.031
10/15/2018	14:43:56	0.037
10/15/2018	14:44:56	0.023
10/15/2018	14:45:56	0.024
10/15/2018	14:46:56	0.026
10/15/2018	14:47:56	0.032
10/15/2018	14:48:56	0.047
10/15/2018	14:49:56	0.053
10/15/2018	14:50:56	0.022
10/15/2018	14:51:56	0.026
10/15/2018	14:52:56	0.025
10/15/2018	14:53:56	0.02
10/15/2018	14:54:56	0.02
10/15/2018	14:55:56	0.033
10/15/2018	14:56:56	0.025
10/15/2018	14:57:56	0.02
10/15/2018	14:58:56	0.021
10/15/2018	14:59:56	0.021
10/15/2018	15:00:56	0.024
10/15/2018	15:01:56	0.023
10/15/2018	15:02:56	0.021
10/15/2018	15:03:56	0.022
10/15/2018	15:04:56	0.02
10/15/2018	15:05:56	0.02
10/15/2018	15:06:56	0.02



10/15/2018	15:07:56	0.028
10/15/2018	15:08:56	0.022
10/15/2018	15:09:56	0.023
10/15/2018	15:10:56	0.023
10/15/2018	15:11:56	0.027
10/15/2018	15:12:56	0.025
10/15/2018	15:13:56	0.026
10/15/2018	15:14:56	0.022
10/15/2018	15:15:56	0.023
10/15/2018	15:16:56	0.026
10/15/2018	15:17:56	0.025
10/15/2018	15:18:56	0.022
10/15/2018	15:19:56	0.023
10/15/2018	15:20:56	0.023
10/15/2018	15:21:56	0.022
10/15/2018	15:22:56	0.022
10/15/2018	15:23:56	0.022
10/15/2018	15:24:56	0.025
10/15/2018	15:25:56	0.023
10/15/2018	15:26:56	0.033
10/15/2018	15:27:56	0.025
10/15/2018	15:28:56	0.025
10/15/2018	15:29:56	0.024
10/15/2018	15:30:56	0.023
10/15/2018	15:31:56	0.024
10/15/2018	15:32:56	0.024
10/15/2018	15:33:56	0.023
10/15/2018	15:34:56	0.026
10/15/2018	15:35:56	0.027
10/15/2018	15:36:56	0.025
10/15/2018	15:37:56	0.026
10/15/2018	15:38:56	0.029
10/15/2018	15:39:56	0.026
10/15/2018	15:40:56	0.024
10/15/2018	15:41:56	0.024
10/15/2018	15:42:56	0.025
10/15/2018	15:43:56	0.025

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530151706  
Test ID: 7  
Test Abbreviation: Downwind\_101618  
Start Date: 10/16/2018  
Start Time: 8:09:28  
Duration (dd:hh:mm:ss): 0:06:51:00  
Log Interval (mm:ss): 1:00  
Number of points: 411  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.009  
Minimum: 0.004  
Time of Minimum: 8:39:28  
Date of Minimum: 10/16/2018  
Maximum: 0.051  
Time of Maximum: 12:02:28  
Date of Maximum: 10/16/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
10/16/2018	8:10:28	0.015
10/16/2018	8:11:28	0.016
10/16/2018	8:12:28	0.016
10/16/2018	8:13:28	0.016
10/16/2018	8:14:28	0.017
10/16/2018	8:15:28	0.019
10/16/2018	8:16:28	0.02
10/16/2018	8:17:28	0.016
10/16/2018	8:18:28	0.02
10/16/2018	8:19:28	0.024
10/16/2018	8:20:28	0.024
10/16/2018	8:21:28	0.025
10/16/2018	8:22:28	0.024
10/16/2018	8:23:28	0.023
10/16/2018	8:24:28	0.023
10/16/2018	8:25:28	0.02
10/16/2018	8:26:28	0.02
10/16/2018	8:27:28	0.018
10/16/2018	8:28:28	0.019
10/16/2018	8:29:28	0.016
10/16/2018	8:30:28	0.015

10/16/2018	8:31:28	0.015
10/16/2018	8:32:28	0.01
10/16/2018	8:33:28	0.007
10/16/2018	8:34:28	0.007
10/16/2018	8:35:28	0.009
10/16/2018	8:36:28	0.007
10/16/2018	8:37:28	0.005
10/16/2018	8:38:28	0.005
10/16/2018	8:39:28	0.004
10/16/2018	8:40:28	0.006
10/16/2018	8:41:28	0.005
10/16/2018	8:42:28	0.008
10/16/2018	8:43:28	0.011
10/16/2018	8:44:28	0.006
10/16/2018	8:45:28	0.006
10/16/2018	8:46:28	0.005
10/16/2018	8:47:28	0.005
10/16/2018	8:48:28	0.005
10/16/2018	8:49:28	0.005
10/16/2018	8:50:28	0.004
10/16/2018	8:51:28	0.005
10/16/2018	8:52:28	0.004
10/16/2018	8:53:28	0.004
10/16/2018	8:54:28	0.005
10/16/2018	8:55:28	0.004
10/16/2018	8:56:28	0.004
10/16/2018	8:57:28	0.006
10/16/2018	8:58:28	0.005
10/16/2018	8:59:28	0.005
10/16/2018	9:00:28	0.005
10/16/2018	9:01:28	0.006
10/16/2018	9:02:28	0.005
10/16/2018	9:03:28	0.006
10/16/2018	9:04:28	0.005
10/16/2018	9:05:28	0.005
10/16/2018	9:06:28	0.005
10/16/2018	9:07:28	0.006
10/16/2018	9:08:28	0.006
10/16/2018	9:09:28	0.006
10/16/2018	9:10:28	0.006
10/16/2018	9:11:28	0.007
10/16/2018	9:12:28	0.008
10/16/2018	9:13:28	0.02
10/16/2018	9:14:28	0.008
10/16/2018	9:15:28	0.005
10/16/2018	9:16:28	0.005
10/16/2018	9:17:28	0.005

10/16/2018	9:18:28	0.004
10/16/2018	9:19:28	0.004
10/16/2018	9:20:28	0.004
10/16/2018	9:21:28	0.006
10/16/2018	9:22:28	0.005
10/16/2018	9:23:28	0.005
10/16/2018	9:24:28	0.005
10/16/2018	9:25:28	0.007
10/16/2018	9:26:28	0.005
10/16/2018	9:27:28	0.005
10/16/2018	9:28:28	0.005
10/16/2018	9:29:28	0.009
10/16/2018	9:30:28	0.008
10/16/2018	9:31:28	0.006
10/16/2018	9:32:28	0.007
10/16/2018	9:33:28	0.007
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10/16/2018	9:46:28	0.005
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10/16/2018	9:48:28	0.005
10/16/2018	9:49:28	0.005
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10/16/2018	9:51:28	0.005
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10/16/2018	9:57:28	0.006
10/16/2018	9:58:28	0.005
10/16/2018	9:59:28	0.005
10/16/2018	10:00:28	0.005
10/16/2018	10:01:28	0.018
10/16/2018	10:02:28	0.021
10/16/2018	10:03:28	0.015
10/16/2018	10:04:28	0.009

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10/16/2018	10:08:28	0.009
10/16/2018	10:09:28	0.005
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10/16/2018	10:34:28	0.004
10/16/2018	10:35:28	0.006
10/16/2018	10:36:28	0.005
10/16/2018	10:37:28	0.004
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10/16/2018	10:41:28	0.004
10/16/2018	10:42:28	0.005
10/16/2018	10:43:28	0.005
10/16/2018	10:44:28	0.004
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10/16/2018	10:49:28	0.023
10/16/2018	10:50:28	0.013
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10/16/2018	11:02:28	0.006
10/16/2018	11:03:28	0.008
10/16/2018	11:04:28	0.011
10/16/2018	11:05:28	0.015
10/16/2018	11:06:28	0.017
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10/16/2018	11:08:28	0.004
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10/16/2018	11:29:28	0.007
10/16/2018	11:30:28	0.005
10/16/2018	11:31:28	0.005
10/16/2018	11:32:28	0.008
10/16/2018	11:33:28	0.007
10/16/2018	11:34:28	0.008
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10/16/2018	11:36:28	0.012
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10/16/2018	11:42:28	0.01
10/16/2018	11:43:28	0.007
10/16/2018	11:44:28	0.009
10/16/2018	11:45:28	0.006
10/16/2018	11:46:28	0.007
10/16/2018	11:47:28	0.012
10/16/2018	11:48:28	0.007
10/16/2018	11:49:28	0.007
10/16/2018	11:50:28	0.006
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10/16/2018	11:53:28	0.008
10/16/2018	11:54:28	0.011
10/16/2018	11:55:28	0.006
10/16/2018	11:56:28	0.007
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10/16/2018	11:58:28	0.007
10/16/2018	11:59:28	0.008
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10/16/2018	12:02:28	0.051
10/16/2018	12:03:28	0.022
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10/16/2018	12:06:28	0.01
10/16/2018	12:07:28	0.006
10/16/2018	12:08:28	0.006
10/16/2018	12:09:28	0.006
10/16/2018	12:10:28	0.006
10/16/2018	12:11:28	0.008
10/16/2018	12:12:28	0.006
10/16/2018	12:13:28	0.006
10/16/2018	12:14:28	0.005
10/16/2018	12:15:28	0.006
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10/16/2018	12:21:28	0.006
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10/16/2018	12:29:28	0.007
10/16/2018	12:30:28	0.007
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10/16/2018	12:32:28	0.008
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10/16/2018	12:35:28	0.008
10/16/2018	12:36:28	0.006
10/16/2018	12:37:28	0.008
10/16/2018	12:38:28	0.009
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10/16/2018	12:48:28	0.006
10/16/2018	12:49:28	0.006
10/16/2018	12:50:28	0.007
10/16/2018	12:51:28	0.011
10/16/2018	12:52:28	0.009
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10/16/2018	12:59:28	0.009
10/16/2018	13:00:28	0.009
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10/16/2018	13:03:28	0.009
10/16/2018	13:04:28	0.009
10/16/2018	13:05:28	0.009
10/16/2018	13:06:28	0.014
10/16/2018	13:07:28	0.009
10/16/2018	13:08:28	0.008
10/16/2018	13:09:28	0.013
10/16/2018	13:10:28	0.012
10/16/2018	13:11:28	0.008
10/16/2018	13:12:28	0.009



10/16/2018	13:13:28	0.008
10/16/2018	13:14:28	0.01
10/16/2018	13:15:28	0.009
10/16/2018	13:16:28	0.008
10/16/2018	13:17:28	0.011
10/16/2018	13:18:28	0.008
10/16/2018	13:19:28	0.008
10/16/2018	13:20:28	0.008
10/16/2018	13:21:28	0.009
10/16/2018	13:22:28	0.012
10/16/2018	13:23:28	0.01
10/16/2018	13:24:28	0.008
10/16/2018	13:25:28	0.008
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10/16/2018	13:31:28	0.008
10/16/2018	13:32:28	0.009
10/16/2018	13:33:28	0.007
10/16/2018	13:34:28	0.009
10/16/2018	13:35:28	0.009
10/16/2018	13:36:28	0.009
10/16/2018	13:37:28	0.009
10/16/2018	13:38:28	0.012
10/16/2018	13:39:28	0.011
10/16/2018	13:40:28	0.011
10/16/2018	13:41:28	0.009
10/16/2018	13:42:28	0.007
10/16/2018	13:43:28	0.006
10/16/2018	13:44:28	0.01
10/16/2018	13:45:28	0.008
10/16/2018	13:46:28	0.008
10/16/2018	13:47:28	0.009
10/16/2018	13:48:28	0.016
10/16/2018	13:49:28	0.014
10/16/2018	13:50:28	0.012
10/16/2018	13:51:28	0.009
10/16/2018	13:52:28	0.009
10/16/2018	13:53:28	0.007
10/16/2018	13:54:28	0.01
10/16/2018	13:55:28	0.012
10/16/2018	13:56:28	0.009
10/16/2018	13:57:28	0.007
10/16/2018	13:58:28	0.007
10/16/2018	13:59:28	0.006

10/16/2018	14:00:28	0.01
10/16/2018	14:01:28	0.007
10/16/2018	14:02:28	0.008
10/16/2018	14:03:28	0.012
10/16/2018	14:04:28	0.013
10/16/2018	14:05:28	0.012
10/16/2018	14:06:28	0.009
10/16/2018	14:07:28	0.01
10/16/2018	14:08:28	0.008
10/16/2018	14:09:28	0.008
10/16/2018	14:10:28	0.011
10/16/2018	14:11:28	0.011
10/16/2018	14:12:28	0.01
10/16/2018	14:13:28	0.008
10/16/2018	14:14:28	0.007
10/16/2018	14:15:28	0.007
10/16/2018	14:16:28	0.007
10/16/2018	14:17:28	0.009
10/16/2018	14:18:28	0.019
10/16/2018	14:19:28	0.011
10/16/2018	14:20:28	0.016
10/16/2018	14:21:28	0.013
10/16/2018	14:22:28	0.01
10/16/2018	14:23:28	0.008
10/16/2018	14:24:28	0.007
10/16/2018	14:25:28	0.02
10/16/2018	14:26:28	0.011
10/16/2018	14:27:28	0.009
10/16/2018	14:28:28	0.015
10/16/2018	14:29:28	0.011
10/16/2018	14:30:28	0.013
10/16/2018	14:31:28	0.008
10/16/2018	14:32:28	0.013
10/16/2018	14:33:28	0.022
10/16/2018	14:34:28	0.011
10/16/2018	14:35:28	0.008
10/16/2018	14:36:28	0.007
10/16/2018	14:37:28	0.008
10/16/2018	14:38:28	0.009
10/16/2018	14:39:28	0.009
10/16/2018	14:40:28	0.012
10/16/2018	14:41:28	0.013
10/16/2018	14:42:28	0.009
10/16/2018	14:43:28	0.012
10/16/2018	14:44:28	0.008
10/16/2018	14:45:28	0.007
10/16/2018	14:46:28	0.008

10/16/2018	14:47:28	0.008
10/16/2018	14:48:28	0.014
10/16/2018	14:49:28	0.009
10/16/2018	14:50:28	0.007
10/16/2018	14:51:28	0.007
10/16/2018	14:52:28	0.009
10/16/2018	14:53:28	0.008
10/16/2018	14:54:28	0.008
10/16/2018	14:55:28	0.007
10/16/2018	14:56:28	0.008
10/16/2018	14:57:28	0.006
10/16/2018	14:58:28	0.006
10/16/2018	14:59:28	0.006
10/16/2018	15:00:28	0.006

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530154504  
 Test ID: 1  
 Test Abbreviation: Downwind\_121018  
 Start Date: 12/10/2018  
 Start Time: 8:57:04  
 Duration (dd:hh:mm:ss): 0:05:49:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 348  
 Notes:

Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.038  
 Minimum: 0.013  
 Time of Minimum: 13:41:04  
 Date of Minimum: 12/10/2018  
 Maximum: 1.080  
 Time of Maximum: 12:08:04  
 Date of Maximum: 12/10/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
12/10/2018	8:57:04	0.16
12/10/2018	8:58:04	0.166
12/10/2018	8:59:04	0.114
12/10/2018	9:00:04	0.074
12/10/2018	9:01:04	0.036
12/10/2018	9:02:04	0.037
12/10/2018	9:03:04	0.037
12/10/2018	9:04:04	0.037
12/10/2018	9:05:04	0.038
12/10/2018	9:06:04	0.041
12/10/2018	9:07:04	0.045
12/10/2018	9:08:04	0.053
12/10/2018	9:09:04	0.092
12/10/2018	9:10:04	0.036
12/10/2018	9:11:04	0.035
12/10/2018	9:12:04	0.037
12/10/2018	9:13:04	0.033
12/10/2018	9:14:04	0.03
12/10/2018	9:15:04	0.035
12/10/2018	9:16:04	0.032
12/10/2018	9:17:04	0.048

12/10/2018	9:18:04	0.032
12/10/2018	9:19:04	0.03
12/10/2018	9:20:04	0.033
12/10/2018	9:21:04	0.039
12/10/2018	9:22:04	0.046
12/10/2018	9:23:04	0.03
12/10/2018	9:24:04	0.026
12/10/2018	9:25:04	0.025
12/10/2018	9:26:04	0.024
12/10/2018	9:27:04	0.024
12/10/2018	9:28:04	0.027
12/10/2018	9:29:04	0.024
12/10/2018	9:30:04	0.026
12/10/2018	9:31:04	0.024
12/10/2018	9:32:04	0.023
12/10/2018	9:33:04	0.027
12/10/2018	9:34:04	0.027
12/10/2018	9:35:04	0.029
12/10/2018	9:36:04	0.027
12/10/2018	9:37:04	0.033
12/10/2018	9:38:04	0.031
12/10/2018	9:39:04	0.039
12/10/2018	9:40:04	0.036
12/10/2018	9:41:04	0.048
12/10/2018	9:42:04	0.085
12/10/2018	9:43:04	0.049
12/10/2018	9:44:04	0.027
12/10/2018	9:45:04	0.027
12/10/2018	9:46:04	0.023
12/10/2018	9:47:04	0.021
12/10/2018	9:48:04	0.025
12/10/2018	9:49:04	0.024
12/10/2018	9:50:04	0.026
12/10/2018	9:51:04	0.022
12/10/2018	9:52:04	0.026
12/10/2018	9:53:04	0.025
12/10/2018	9:54:04	0.022
12/10/2018	9:55:04	0.052
12/10/2018	9:56:04	0.037
12/10/2018	9:57:04	0.02
12/10/2018	9:58:04	0.02
12/10/2018	9:59:04	0.02
12/10/2018	10:00:04	0.022
12/10/2018	10:01:04	0.02
12/10/2018	10:02:04	0.019
12/10/2018	10:03:04	0.024
12/10/2018	10:04:04	0.039

12/10/2018	10:05:04	0.026
12/10/2018	10:06:04	0.022
12/10/2018	10:07:04	0.019
12/10/2018	10:08:04	0.018
12/10/2018	10:09:04	0.02
12/10/2018	10:10:04	0.022
12/10/2018	10:11:04	0.02
12/10/2018	10:12:04	0.029
12/10/2018	10:13:04	0.022
12/10/2018	10:14:04	0.019
12/10/2018	10:15:04	0.019
12/10/2018	10:16:04	0.029
12/10/2018	10:17:04	0.023
12/10/2018	10:18:04	0.016
12/10/2018	10:19:04	0.016
12/10/2018	10:20:04	0.018
12/10/2018	10:21:04	0.019
12/10/2018	10:22:04	0.019
12/10/2018	10:23:04	0.019
12/10/2018	10:24:04	0.021
12/10/2018	10:25:04	0.019
12/10/2018	10:26:04	0.023
12/10/2018	10:27:04	0.026
12/10/2018	10:28:04	0.018
12/10/2018	10:29:04	0.015
12/10/2018	10:30:04	0.021
12/10/2018	10:31:04	0.02
12/10/2018	10:32:04	0.021
12/10/2018	10:33:04	0.02
12/10/2018	10:34:04	0.026
12/10/2018	10:35:04	0.02
12/10/2018	10:36:04	0.019
12/10/2018	10:37:04	0.017
12/10/2018	10:38:04	0.018
12/10/2018	10:39:04	0.02
12/10/2018	10:40:04	0.016
12/10/2018	10:41:04	0.016
12/10/2018	10:42:04	0.015
12/10/2018	10:43:04	0.015
12/10/2018	10:44:04	0.015
12/10/2018	10:45:04	0.016
12/10/2018	10:46:04	0.016
12/10/2018	10:47:04	0.016
12/10/2018	10:48:04	0.017
12/10/2018	10:49:04	0.082
12/10/2018	10:50:04	0.113
12/10/2018	10:51:04	0.036

12/10/2018	10:52:04	0.041
12/10/2018	10:53:04	0.02
12/10/2018	10:54:04	0.03
12/10/2018	10:55:04	0.041
12/10/2018	10:56:04	0.02
12/10/2018	10:57:04	0.035
12/10/2018	10:58:04	0.021
12/10/2018	10:59:04	0.024
12/10/2018	11:00:04	0.028
12/10/2018	11:01:04	0.05
12/10/2018	11:02:04	0.019
12/10/2018	11:03:04	0.018
12/10/2018	11:04:04	0.017
12/10/2018	11:05:04	0.02
12/10/2018	11:06:04	0.016
12/10/2018	11:07:04	0.016
12/10/2018	11:08:04	0.015
12/10/2018	11:09:04	0.021
12/10/2018	11:10:04	0.022
12/10/2018	11:11:04	0.019
12/10/2018	11:12:04	0.017
12/10/2018	11:13:04	0.019
12/10/2018	11:14:04	0.019
12/10/2018	11:15:04	0.017
12/10/2018	11:16:04	0.042
12/10/2018	11:17:04	0.027
12/10/2018	11:18:04	0.02
12/10/2018	11:19:04	0.017
12/10/2018	11:20:04	0.019
12/10/2018	11:21:04	0.02
12/10/2018	11:22:04	0.018
12/10/2018	11:23:04	0.018
12/10/2018	11:24:04	0.016
12/10/2018	11:25:04	0.016
12/10/2018	11:26:04	0.016
12/10/2018	11:27:04	0.015
12/10/2018	11:28:04	0.014
12/10/2018	11:29:04	0.016
12/10/2018	11:30:04	0.016
12/10/2018	11:31:04	0.016
12/10/2018	11:32:04	0.016
12/10/2018	11:33:04	0.015
12/10/2018	11:34:04	0.015
12/10/2018	11:35:04	0.014
12/10/2018	11:36:04	0.015
12/10/2018	11:37:04	0.015
12/10/2018	11:38:04	0.02

12/10/2018	11:39:04	0.019
12/10/2018	11:40:04	0.015
12/10/2018	11:41:04	0.015
12/10/2018	11:42:04	0.016
12/10/2018	11:43:04	0.016
12/10/2018	11:44:04	0.017
12/10/2018	11:45:04	0.017
12/10/2018	11:46:04	0.016
12/10/2018	11:47:04	0.016
12/10/2018	11:48:04	0.017
12/10/2018	11:49:04	0.016
12/10/2018	11:50:04	0.016
12/10/2018	11:51:04	0.017
12/10/2018	11:52:04	0.017
12/10/2018	11:53:04	0.016
12/10/2018	11:54:04	0.017
12/10/2018	11:55:04	0.097
12/10/2018	11:56:04	0.149
12/10/2018	11:57:04	0.061
12/10/2018	11:58:04	0.02
12/10/2018	11:59:04	0.054
12/10/2018	12:00:04	0.394
12/10/2018	12:01:04	0.51
12/10/2018	12:02:04	0.118
12/10/2018	12:03:04	0.114
12/10/2018	12:04:04	0.288
12/10/2018	12:05:04	0.032
12/10/2018	12:06:04	0.671
12/10/2018	12:07:04	0.682
12/10/2018	12:08:04	1.08
12/10/2018	12:09:04	0.215
12/10/2018	12:10:04	0.131
12/10/2018	12:11:04	0.289
12/10/2018	12:12:04	0.161
12/10/2018	12:13:04	0.215
12/10/2018	12:14:04	0.019
12/10/2018	12:15:04	0.017
12/10/2018	12:16:04	0.018
12/10/2018	12:17:04	0.021
12/10/2018	12:18:04	0.018
12/10/2018	12:19:04	0.021
12/10/2018	12:20:04	0.025
12/10/2018	12:21:04	0.024
12/10/2018	12:22:04	0.017
12/10/2018	12:23:04	0.02
12/10/2018	12:24:04	0.027
12/10/2018	12:25:04	0.02



12/10/2018	12:26:04	0.019
12/10/2018	12:27:04	0.019
12/10/2018	12:28:04	0.019
12/10/2018	12:29:04	0.018
12/10/2018	12:30:04	0.02
12/10/2018	12:31:04	0.019
12/10/2018	12:32:04	0.019
12/10/2018	12:33:04	0.018
12/10/2018	12:34:04	0.019
12/10/2018	12:35:04	0.021
12/10/2018	12:36:04	0.017
12/10/2018	12:37:04	0.018
12/10/2018	12:38:04	0.017
12/10/2018	12:39:04	0.019
12/10/2018	12:40:04	0.02
12/10/2018	12:41:04	0.017
12/10/2018	12:42:04	0.019
12/10/2018	12:43:04	0.021
12/10/2018	12:44:04	0.025
12/10/2018	12:45:04	0.02
12/10/2018	12:46:04	0.026
12/10/2018	12:47:04	0.022
12/10/2018	12:48:04	0.019
12/10/2018	12:49:04	0.018
12/10/2018	12:50:04	0.018
12/10/2018	12:51:04	0.019
12/10/2018	12:52:04	0.018
12/10/2018	12:53:04	0.019
12/10/2018	12:54:04	0.018
12/10/2018	12:55:04	0.016
12/10/2018	12:56:04	0.016
12/10/2018	12:57:04	0.016
12/10/2018	12:58:04	0.017
12/10/2018	12:59:04	0.017
12/10/2018	13:00:04	0.015
12/10/2018	13:01:04	0.015
12/10/2018	13:02:04	0.015
12/10/2018	13:03:04	0.014
12/10/2018	13:04:04	0.015
12/10/2018	13:05:04	0.016
12/10/2018	13:06:04	0.015
12/10/2018	13:07:04	0.018
12/10/2018	13:08:04	0.026
12/10/2018	13:09:04	0.025
12/10/2018	13:10:04	0.02
12/10/2018	13:11:04	0.02
12/10/2018	13:12:04	0.016

12/10/2018	13:13:04	0.02
12/10/2018	13:14:04	0.016
12/10/2018	13:15:04	0.016
12/10/2018	13:16:04	0.014
12/10/2018	13:17:04	0.015
12/10/2018	13:18:04	0.015
12/10/2018	13:19:04	0.017
12/10/2018	13:20:04	0.015
12/10/2018	13:21:04	0.017
12/10/2018	13:22:04	0.015
12/10/2018	13:23:04	0.014
12/10/2018	13:24:04	0.014
12/10/2018	13:25:04	0.021
12/10/2018	13:26:04	0.017
12/10/2018	13:27:04	0.014
12/10/2018	13:28:04	0.019
12/10/2018	13:29:04	0.029
12/10/2018	13:30:04	0.02
12/10/2018	13:31:04	0.026
12/10/2018	13:32:04	0.018
12/10/2018	13:33:04	0.024
12/10/2018	13:34:04	0.015
12/10/2018	13:35:04	0.016
12/10/2018	13:36:04	0.016
12/10/2018	13:37:04	0.015
12/10/2018	13:38:04	0.018
12/10/2018	13:39:04	0.015
12/10/2018	13:40:04	0.014
12/10/2018	13:41:04	0.013
12/10/2018	13:42:04	0.014
12/10/2018	13:43:04	0.018
12/10/2018	13:44:04	0.019
12/10/2018	13:45:04	0.02
12/10/2018	13:46:04	0.021
12/10/2018	13:47:04	0.02
12/10/2018	13:48:04	0.018
12/10/2018	13:49:04	0.019
12/10/2018	13:50:04	0.052
12/10/2018	13:51:04	0.027
12/10/2018	13:52:04	0.019
12/10/2018	13:53:04	0.019
12/10/2018	13:54:04	0.018
12/10/2018	13:55:04	0.018
12/10/2018	13:56:04	0.018
12/10/2018	13:57:04	0.018
12/10/2018	13:58:04	0.018
12/10/2018	13:59:04	0.018

12/10/2018	14:00:04	0.018
12/10/2018	14:01:04	0.018
12/10/2018	14:02:04	0.018
12/10/2018	14:03:04	0.019
12/10/2018	14:04:04	0.02
12/10/2018	14:05:04	0.019
12/10/2018	14:06:04	0.025
12/10/2018	14:07:04	0.038
12/10/2018	14:08:04	0.023
12/10/2018	14:09:04	0.02
12/10/2018	14:10:04	0.019
12/10/2018	14:11:04	0.019
12/10/2018	14:12:04	0.018
12/10/2018	14:13:04	0.018
12/10/2018	14:14:04	0.019
12/10/2018	14:15:04	0.02
12/10/2018	14:16:04	0.021
12/10/2018	14:17:04	0.024
12/10/2018	14:18:04	0.02
12/10/2018	14:19:04	0.02
12/10/2018	14:20:04	0.02
12/10/2018	14:21:04	0.018
12/10/2018	14:22:04	0.018
12/10/2018	14:23:04	0.016
12/10/2018	14:24:04	0.015
12/10/2018	14:25:04	0.016
12/10/2018	14:26:04	0.017
12/10/2018	14:27:04	0.02
12/10/2018	14:28:04	0.02
12/10/2018	14:29:04	0.026
12/10/2018	14:30:04	0.026
12/10/2018	14:31:04	0.021
12/10/2018	14:32:04	0.02
12/10/2018	14:33:04	0.021
12/10/2018	14:34:04	0.016
12/10/2018	14:35:04	0.019
12/10/2018	14:36:04	0.022
12/10/2018	14:37:04	0.02
12/10/2018	14:38:04	0.02
12/10/2018	14:39:04	0.02
12/10/2018	14:40:04	0.017
12/10/2018	14:41:04	0.016
12/10/2018	14:42:04	0.016
12/10/2018	14:43:04	0.016
12/10/2018	14:44:04	0.015

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530154504  
Test ID: 2  
Test Abbreviation: Downwind\_121118  
Start Date: 12/11/2018  
Start Time: 8:04:55  
Duration (dd:hh:mm:ss): 0:07:15:00  
Log Interval (mm:ss): 1:00  
Number of points: 435  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.047  
Minimum: 0.027  
Time of Minimum: 14:25:55  
Date of Minimum: 12/11/2018  
Maximum: 0.537  
Time of Maximum: 8:09:55

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
12/11/2018	8:05:55	0.129
12/11/2018	8:06:55	0.17
12/11/2018	8:07:55	0.216
12/11/2018	8:08:55	0.294
12/11/2018	8:09:55	0.537
12/11/2018	8:10:55	0.442
12/11/2018	8:11:55	0.249
12/11/2018	8:12:55	0.293
12/11/2018	8:13:55	0.256
12/11/2018	8:14:55	0.155
12/11/2018	8:15:55	0.098
12/11/2018	8:16:55	0.111
12/11/2018	8:17:55	0.122
12/11/2018	8:18:55	0.177
12/11/2018	8:19:55	0.158
12/11/2018	8:20:55	0.183
12/11/2018	8:21:55	0.244
12/11/2018	8:22:55	0.296
12/11/2018	8:23:55	0.225
12/11/2018	8:24:55	0.153
12/11/2018	8:25:55	0.097
12/11/2018	8:26:55	0.092

12/11/2018	8:27:55	0.084
12/11/2018	8:28:55	0.09
12/11/2018	8:29:55	0.086
12/11/2018	8:30:55	0.087
12/11/2018	8:31:55	0.084
12/11/2018	8:32:55	0.078
12/11/2018	8:33:55	0.057
12/11/2018	8:34:55	0.063
12/11/2018	8:35:55	0.062
12/11/2018	8:36:55	0.058
12/11/2018	8:37:55	0.046
12/11/2018	8:38:55	0.037
12/11/2018	8:39:55	0.038
12/11/2018	8:40:55	0.038
12/11/2018	8:41:55	0.072
12/11/2018	8:42:55	0.039
12/11/2018	8:43:55	0.04
12/11/2018	8:44:55	0.038
12/11/2018	8:45:55	0.039
12/11/2018	8:46:55	0.039
12/11/2018	8:47:55	0.039
12/11/2018	8:48:55	0.039
12/11/2018	8:49:55	0.037
12/11/2018	8:50:55	0.039
12/11/2018	8:51:55	0.036
12/11/2018	8:52:55	0.037
12/11/2018	8:53:55	0.036
12/11/2018	8:54:55	0.035
12/11/2018	8:55:55	0.035
12/11/2018	8:56:55	0.036
12/11/2018	8:57:55	0.034
12/11/2018	8:58:55	0.034
12/11/2018	8:59:55	0.034
12/11/2018	9:00:55	0.034
12/11/2018	9:01:55	0.035
12/11/2018	9:02:55	0.037
12/11/2018	9:03:55	0.036
12/11/2018	9:04:55	0.042
12/11/2018	9:05:55	0.037
12/11/2018	9:06:55	0.037
12/11/2018	9:07:55	0.036
12/11/2018	9:08:55	0.036
12/11/2018	9:09:55	0.036
12/11/2018	9:10:55	0.036
12/11/2018	9:11:55	0.037
12/11/2018	9:12:55	0.036
12/11/2018	9:13:55	0.038

12/11/2018	9:14:55	0.037
12/11/2018	9:15:55	0.037
12/11/2018	9:16:55	0.037
12/11/2018	9:17:55	0.037
12/11/2018	9:18:55	0.037
12/11/2018	9:19:55	0.044
12/11/2018	9:20:55	0.04
12/11/2018	9:21:55	0.04
12/11/2018	9:22:55	0.038
12/11/2018	9:23:55	0.04
12/11/2018	9:24:55	0.04
12/11/2018	9:25:55	0.04
12/11/2018	9:26:55	0.039
12/11/2018	9:27:55	0.039
12/11/2018	9:28:55	0.039
12/11/2018	9:29:55	0.04
12/11/2018	9:30:55	0.04
12/11/2018	9:31:55	0.039
12/11/2018	9:32:55	0.04
12/11/2018	9:33:55	0.039
12/11/2018	9:34:55	0.039
12/11/2018	9:35:55	0.04
12/11/2018	9:36:55	0.039
12/11/2018	9:37:55	0.037
12/11/2018	9:38:55	0.039
12/11/2018	9:39:55	0.037
12/11/2018	9:40:55	0.036
12/11/2018	9:41:55	0.037
12/11/2018	9:42:55	0.036
12/11/2018	9:43:55	0.036
12/11/2018	9:44:55	0.038
12/11/2018	9:45:55	0.038
12/11/2018	9:46:55	0.039
12/11/2018	9:47:55	0.039
12/11/2018	9:48:55	0.04
12/11/2018	9:49:55	0.039
12/11/2018	9:50:55	0.04
12/11/2018	9:51:55	0.042
12/11/2018	9:52:55	0.039
12/11/2018	9:53:55	0.042
12/11/2018	9:54:55	0.038
12/11/2018	9:55:55	0.038
12/11/2018	9:56:55	0.037
12/11/2018	9:57:55	0.036
12/11/2018	9:58:55	0.037
12/11/2018	9:59:55	0.036
12/11/2018	10:00:55	0.036

12/11/2018	10:01:55	0.037
12/11/2018	10:02:55	0.036
12/11/2018	10:03:55	0.036
12/11/2018	10:04:55	0.036
12/11/2018	10:05:55	0.036
12/11/2018	10:06:55	0.036
12/11/2018	10:07:55	0.035
12/11/2018	10:08:55	0.034
12/11/2018	10:09:55	0.035
12/11/2018	10:10:55	0.035
12/11/2018	10:11:55	0.035
12/11/2018	10:12:55	0.035
12/11/2018	10:13:55	0.034
12/11/2018	10:14:55	0.033
12/11/2018	10:15:55	0.033
12/11/2018	10:16:55	0.033
12/11/2018	10:17:55	0.034
12/11/2018	10:18:55	0.033
12/11/2018	10:19:55	0.033
12/11/2018	10:20:55	0.033
12/11/2018	10:21:55	0.033
12/11/2018	10:22:55	0.033
12/11/2018	10:23:55	0.033
12/11/2018	10:24:55	0.034
12/11/2018	10:25:55	0.035
12/11/2018	10:26:55	0.034
12/11/2018	10:27:55	0.034
12/11/2018	10:28:55	0.033
12/11/2018	10:29:55	0.045
12/11/2018	10:30:55	0.041
12/11/2018	10:31:55	0.035
12/11/2018	10:32:55	0.035
12/11/2018	10:33:55	0.035
12/11/2018	10:34:55	0.033
12/11/2018	10:35:55	0.033
12/11/2018	10:36:55	0.033
12/11/2018	10:37:55	0.034
12/11/2018	10:38:55	0.033
12/11/2018	10:39:55	0.032
12/11/2018	10:40:55	0.032
12/11/2018	10:41:55	0.032
12/11/2018	10:42:55	0.033
12/11/2018	10:43:55	0.033
12/11/2018	10:44:55	0.034
12/11/2018	10:45:55	0.034
12/11/2018	10:46:55	0.033
12/11/2018	10:47:55	0.033

12/11/2018	10:48:55	0.034
12/11/2018	10:49:55	0.033
12/11/2018	10:50:55	0.035
12/11/2018	10:51:55	0.031
12/11/2018	10:52:55	0.031
12/11/2018	10:53:55	0.031
12/11/2018	10:54:55	0.031
12/11/2018	10:55:55	0.031
12/11/2018	10:56:55	0.031
12/11/2018	10:57:55	0.031
12/11/2018	10:58:55	0.031
12/11/2018	10:59:55	0.031
12/11/2018	11:00:55	0.031
12/11/2018	11:01:55	0.031
12/11/2018	11:02:55	0.032
12/11/2018	11:03:55	0.033
12/11/2018	11:04:55	0.032
12/11/2018	11:05:55	0.032
12/11/2018	11:06:55	0.032
12/11/2018	11:07:55	0.032
12/11/2018	11:08:55	0.041
12/11/2018	11:09:55	0.033
12/11/2018	11:10:55	0.032
12/11/2018	11:11:55	0.062
12/11/2018	11:12:55	0.031
12/11/2018	11:13:55	0.031
12/11/2018	11:14:55	0.047
12/11/2018	11:15:55	0.031
12/11/2018	11:16:55	0.032
12/11/2018	11:17:55	0.032
12/11/2018	11:18:55	0.033
12/11/2018	11:19:55	0.036
12/11/2018	11:20:55	0.036
12/11/2018	11:21:55	0.046
12/11/2018	11:22:55	0.038
12/11/2018	11:23:55	0.04
12/11/2018	11:24:55	0.042
12/11/2018	11:25:55	0.04
12/11/2018	11:26:55	0.039
12/11/2018	11:27:55	0.044
12/11/2018	11:28:55	0.04
12/11/2018	11:29:55	0.033
12/11/2018	11:30:55	0.032
12/11/2018	11:31:55	0.039
12/11/2018	11:32:55	0.036
12/11/2018	11:33:55	0.032
12/11/2018	11:34:55	0.032



12/11/2018	11:35:55	0.033
12/11/2018	11:36:55	0.036
12/11/2018	11:37:55	0.033
12/11/2018	11:38:55	0.04
12/11/2018	11:39:55	0.034
12/11/2018	11:40:55	0.044
12/11/2018	11:41:55	0.037
12/11/2018	11:42:55	0.039
12/11/2018	11:43:55	0.05
12/11/2018	11:44:55	0.033
12/11/2018	11:45:55	0.034
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12/11/2018	11:47:55	0.032
12/11/2018	11:48:55	0.032
12/11/2018	11:49:55	0.033
12/11/2018	11:50:55	0.033
12/11/2018	11:51:55	0.036
12/11/2018	11:52:55	0.036
12/11/2018	11:53:55	0.033
12/11/2018	11:54:55	0.033
12/11/2018	11:55:55	0.033
12/11/2018	11:56:55	0.032
12/11/2018	11:57:55	0.033
12/11/2018	11:58:55	0.033
12/11/2018	11:59:55	0.033
12/11/2018	12:00:55	0.033
12/11/2018	12:01:55	0.034
12/11/2018	12:02:55	0.033
12/11/2018	12:03:55	0.034
12/11/2018	12:04:55	0.036
12/11/2018	12:05:55	0.035
12/11/2018	12:06:55	0.035
12/11/2018	12:07:55	0.037
12/11/2018	12:08:55	0.036
12/11/2018	12:09:55	0.036
12/11/2018	12:10:55	0.035
12/11/2018	12:11:55	0.038
12/11/2018	12:12:55	0.037
12/11/2018	12:13:55	0.039
12/11/2018	12:14:55	0.038
12/11/2018	12:15:55	0.038
12/11/2018	12:16:55	0.039
12/11/2018	12:17:55	0.04
12/11/2018	12:18:55	0.039
12/11/2018	12:19:55	0.039
12/11/2018	12:20:55	0.044
12/11/2018	12:21:55	0.061

12/11/2018	12:22:55	0.061
12/11/2018	12:23:55	0.1
12/11/2018	12:24:55	0.149
12/11/2018	12:25:55	0.084
12/11/2018	12:26:55	0.051
12/11/2018	12:27:55	0.05
12/11/2018	12:28:55	0.045
12/11/2018	12:29:55	0.05
12/11/2018	12:30:55	0.041
12/11/2018	12:31:55	0.038
12/11/2018	12:32:55	0.037
12/11/2018	12:33:55	0.038
12/11/2018	12:34:55	0.038
12/11/2018	12:35:55	0.038
12/11/2018	12:36:55	0.038
12/11/2018	12:37:55	0.038
12/11/2018	12:38:55	0.039
12/11/2018	12:39:55	0.05
12/11/2018	12:40:55	0.049
12/11/2018	12:41:55	0.047
12/11/2018	12:42:55	0.044
12/11/2018	12:43:55	0.043
12/11/2018	12:44:55	0.043
12/11/2018	12:45:55	0.042
12/11/2018	12:46:55	0.055
12/11/2018	12:47:55	0.137
12/11/2018	12:48:55	0.055
12/11/2018	12:49:55	0.056
12/11/2018	12:50:55	0.081
12/11/2018	12:51:55	0.075
12/11/2018	12:52:55	0.072
12/11/2018	12:53:55	0.071
12/11/2018	12:54:55	0.058
12/11/2018	12:55:55	0.047
12/11/2018	12:56:55	0.043
12/11/2018	12:57:55	0.043
12/11/2018	12:58:55	0.043
12/11/2018	12:59:55	0.043
12/11/2018	13:00:55	0.043
12/11/2018	13:01:55	0.045
12/11/2018	13:02:55	0.045
12/11/2018	13:03:55	0.045
12/11/2018	13:04:55	0.046
12/11/2018	13:05:55	0.045
12/11/2018	13:06:55	0.045
12/11/2018	13:07:55	0.044
12/11/2018	13:08:55	0.046

12/11/2018	13:09:55	0.047
12/11/2018	13:10:55	0.044
12/11/2018	13:11:55	0.045
12/11/2018	13:12:55	0.043
12/11/2018	13:13:55	0.043
12/11/2018	13:14:55	0.046
12/11/2018	13:15:55	0.045
12/11/2018	13:16:55	0.043
12/11/2018	13:17:55	0.041
12/11/2018	13:18:55	0.046
12/11/2018	13:19:55	0.057
12/11/2018	13:20:55	0.039
12/11/2018	13:21:55	0.04
12/11/2018	13:22:55	0.036
12/11/2018	13:23:55	0.036
12/11/2018	13:24:55	0.035
12/11/2018	13:25:55	0.046
12/11/2018	13:26:55	0.035
12/11/2018	13:27:55	0.036
12/11/2018	13:28:55	0.033
12/11/2018	13:29:55	0.033
12/11/2018	13:30:55	0.035
12/11/2018	13:31:55	0.033
12/11/2018	13:32:55	0.032
12/11/2018	13:33:55	0.032
12/11/2018	13:34:55	0.03
12/11/2018	13:35:55	0.029
12/11/2018	13:36:55	0.03
12/11/2018	13:37:55	0.034
12/11/2018	13:38:55	0.035
12/11/2018	13:39:55	0.033
12/11/2018	13:40:55	0.032
12/11/2018	13:41:55	0.034
12/11/2018	13:42:55	0.034
12/11/2018	13:43:55	0.034
12/11/2018	13:44:55	0.036
12/11/2018	13:45:55	0.032
12/11/2018	13:46:55	0.033
12/11/2018	13:47:55	0.034
12/11/2018	13:48:55	0.032
12/11/2018	13:49:55	0.032
12/11/2018	13:50:55	0.031
12/11/2018	13:51:55	0.03
12/11/2018	13:52:55	0.032
12/11/2018	13:53:55	0.029
12/11/2018	13:54:55	0.031
12/11/2018	13:55:55	0.031

12/11/2018	13:56:55	0.029
12/11/2018	13:57:55	0.029
12/11/2018	13:58:55	0.029
12/11/2018	13:59:55	0.03
12/11/2018	14:00:55	0.03
12/11/2018	14:01:55	0.031
12/11/2018	14:02:55	0.03
12/11/2018	14:03:55	0.03
12/11/2018	14:04:55	0.031
12/11/2018	14:05:55	0.032
12/11/2018	14:06:55	0.028
12/11/2018	14:07:55	0.028
12/11/2018	14:08:55	0.028
12/11/2018	14:09:55	0.029
12/11/2018	14:10:55	0.028
12/11/2018	14:11:55	0.028
12/11/2018	14:12:55	0.028
12/11/2018	14:13:55	0.028
12/11/2018	14:14:55	0.028
12/11/2018	14:15:55	0.029
12/11/2018	14:16:55	0.029
12/11/2018	14:17:55	0.029
12/11/2018	14:18:55	0.028
12/11/2018	14:19:55	0.029
12/11/2018	14:20:55	0.029
12/11/2018	14:21:55	0.03
12/11/2018	14:22:55	0.03
12/11/2018	14:23:55	0.028
12/11/2018	14:24:55	0.028
12/11/2018	14:25:55	0.027
12/11/2018	14:26:55	0.028
12/11/2018	14:27:55	0.029
12/11/2018	14:28:55	0.03
12/11/2018	14:29:55	0.028
12/11/2018	14:30:55	0.028
12/11/2018	14:31:55	0.027
12/11/2018	14:32:55	0.027
12/11/2018	14:33:55	0.028
12/11/2018	14:34:55	0.028
12/11/2018	14:35:55	0.033
12/11/2018	14:36:55	0.029
12/11/2018	14:37:55	0.028
12/11/2018	14:38:55	0.028
12/11/2018	14:39:55	0.028
12/11/2018	14:40:55	0.029
12/11/2018	14:41:55	0.032
12/11/2018	14:42:55	0.029

12/11/2018	14:43:55	0.031
12/11/2018	14:44:55	0.031
12/11/2018	14:45:55	0.034
12/11/2018	14:46:55	0.03
12/11/2018	14:47:55	0.031
12/11/2018	14:48:55	0.029
12/11/2018	14:49:55	0.031
12/11/2018	14:50:55	0.03
12/11/2018	14:51:55	0.029
12/11/2018	14:52:55	0.029
12/11/2018	14:53:55	0.029
12/11/2018	14:54:55	0.032
12/11/2018	14:55:55	0.03
12/11/2018	14:56:55	0.029
12/11/2018	14:57:55	0.029
12/11/2018	14:58:55	0.029
12/11/2018	14:59:55	0.028
12/11/2018	15:00:55	0.029
12/11/2018	15:01:55	0.029
12/11/2018	15:02:55	0.031
12/11/2018	15:03:55	0.03
12/11/2018	15:04:55	0.039
12/11/2018	15:05:55	0.038
12/11/2018	15:06:55	0.034
12/11/2018	15:07:55	0.034
12/11/2018	15:08:55	0.03
12/11/2018	15:09:55	0.031
12/11/2018	15:10:55	0.03
12/11/2018	15:11:55	0.03
12/11/2018	15:12:55	0.031
12/11/2018	15:13:55	0.032
12/11/2018	15:14:55	0.033
12/11/2018	15:15:55	0.033
12/11/2018	15:16:55	0.036
12/11/2018	15:17:55	0.039
12/11/2018	15:18:55	0.033
12/11/2018	15:19:55	0.032

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530154504  
 Test ID: 3  
 Test Abbreviation: Downwind\_121218  
 Start Date: 12/12/2018  
 Start Time: 7:57:45  
 Duration (dd:hh:mm:ss): 0:03:52:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 232  
 Notes:

Statistics	Channel:	AEROSOL
	Units:	mg/m <sup>3</sup>
	Average:	0.048
	Minimum:	0.025
	Time of Minimum:	11:42:45
	Date of Minimum:	12/12/2018
	Maximum:	0.263
	Time of Maximum:	10:33:45
	Date of Maximum:	12/12/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
12/12/2018	7:58:45	0.052
12/12/2018	7:59:45	0.052
12/12/2018	8:00:45	0.059
12/12/2018	8:01:45	0.058
12/12/2018	8:02:45	0.053
12/12/2018	8:03:45	0.054
12/12/2018	8:04:45	0.052
12/12/2018	8:05:45	0.051
12/12/2018	8:06:45	0.051
12/12/2018	8:07:45	0.049
12/12/2018	8:08:45	0.049
12/12/2018	8:09:45	0.05
12/12/2018	8:10:45	0.05
12/12/2018	8:11:45	0.05
12/12/2018	8:12:45	0.053
12/12/2018	8:13:45	0.051
12/12/2018	8:14:45	0.053
12/12/2018	8:15:45	0.049
12/12/2018	8:16:45	0.049
12/12/2018	8:17:45	0.052
12/12/2018	8:18:45	0.053

12/12/2018	8:19:45	0.049
12/12/2018	8:20:45	0.053
12/12/2018	8:21:45	0.05
12/12/2018	8:22:45	0.05
12/12/2018	8:23:45	0.049
12/12/2018	8:24:45	0.052
12/12/2018	8:25:45	0.064
12/12/2018	8:26:45	0.055
12/12/2018	8:27:45	0.054
12/12/2018	8:28:45	0.051
12/12/2018	8:29:45	0.05
12/12/2018	8:30:45	0.051
12/12/2018	8:31:45	0.051
12/12/2018	8:32:45	0.051
12/12/2018	8:33:45	0.052
12/12/2018	8:34:45	0.051
12/12/2018	8:35:45	0.052
12/12/2018	8:36:45	0.054
12/12/2018	8:37:45	0.057
12/12/2018	8:38:45	0.054
12/12/2018	8:39:45	0.052
12/12/2018	8:40:45	0.054
12/12/2018	8:41:45	0.051
12/12/2018	8:42:45	0.05
12/12/2018	8:43:45	0.052
12/12/2018	8:44:45	0.051
12/12/2018	8:45:45	0.052
12/12/2018	8:46:45	0.052
12/12/2018	8:47:45	0.051
12/12/2018	8:48:45	0.052
12/12/2018	8:49:45	0.052
12/12/2018	8:50:45	0.056
12/12/2018	8:51:45	0.055
12/12/2018	8:52:45	0.052
12/12/2018	8:53:45	0.052
12/12/2018	8:54:45	0.052
12/12/2018	8:55:45	0.054
12/12/2018	8:56:45	0.052
12/12/2018	8:57:45	0.051
12/12/2018	8:58:45	0.05
12/12/2018	8:59:45	0.049
12/12/2018	9:00:45	0.051
12/12/2018	9:01:45	0.049
12/12/2018	9:02:45	0.049
12/12/2018	9:03:45	0.05
12/12/2018	9:04:45	0.053
12/12/2018	9:05:45	0.052

12/12/2018	9:06:45	0.05
12/12/2018	9:07:45	0.057
12/12/2018	9:08:45	0.054
12/12/2018	9:09:45	0.052
12/12/2018	9:10:45	0.053
12/12/2018	9:11:45	0.048
12/12/2018	9:12:45	0.054
12/12/2018	9:13:45	0.048
12/12/2018	9:14:45	0.047
12/12/2018	9:15:45	0.051
12/12/2018	9:16:45	0.051
12/12/2018	9:17:45	0.051
12/12/2018	9:18:45	0.05
12/12/2018	9:19:45	0.048
12/12/2018	9:20:45	0.047
12/12/2018	9:21:45	0.047
12/12/2018	9:22:45	0.205
12/12/2018	9:23:45	0.102
12/12/2018	9:24:45	0.049
12/12/2018	9:25:45	0.049
12/12/2018	9:26:45	0.048
12/12/2018	9:27:45	0.047
12/12/2018	9:28:45	0.045
12/12/2018	9:29:45	0.046
12/12/2018	9:30:45	0.046
12/12/2018	9:31:45	0.045
12/12/2018	9:32:45	0.046
12/12/2018	9:33:45	0.045
12/12/2018	9:34:45	0.045
12/12/2018	9:35:45	0.046
12/12/2018	9:36:45	0.043
12/12/2018	9:37:45	0.044
12/12/2018	9:38:45	0.044
12/12/2018	9:39:45	0.045
12/12/2018	9:40:45	0.043
12/12/2018	9:41:45	0.044
12/12/2018	9:42:45	0.043
12/12/2018	9:43:45	0.043
12/12/2018	9:44:45	0.119
12/12/2018	9:45:45	0.071
12/12/2018	9:46:45	0.079
12/12/2018	9:47:45	0.041
12/12/2018	9:48:45	0.04
12/12/2018	9:49:45	0.041
12/12/2018	9:50:45	0.039
12/12/2018	9:51:45	0.038
12/12/2018	9:52:45	0.041



12/12/2018	9:53:45	0.039
12/12/2018	9:54:45	0.039
12/12/2018	9:55:45	0.038
12/12/2018	9:56:45	0.039
12/12/2018	9:57:45	0.039
12/12/2018	9:58:45	0.038
12/12/2018	9:59:45	0.037
12/12/2018	10:00:45	0.038
12/12/2018	10:01:45	0.039
12/12/2018	10:02:45	0.038
12/12/2018	10:03:45	0.036
12/12/2018	10:04:45	0.037
12/12/2018	10:05:45	0.036
12/12/2018	10:06:45	0.035
12/12/2018	10:07:45	0.036
12/12/2018	10:08:45	0.036
12/12/2018	10:09:45	0.035
12/12/2018	10:10:45	0.037
12/12/2018	10:11:45	0.036
12/12/2018	10:12:45	0.042
12/12/2018	10:13:45	0.038
12/12/2018	10:14:45	0.039
12/12/2018	10:15:45	0.041
12/12/2018	10:16:45	0.036
12/12/2018	10:17:45	0.078
12/12/2018	10:18:45	0.21
12/12/2018	10:19:45	0.136
12/12/2018	10:20:45	0.039
12/12/2018	10:21:45	0.038
12/12/2018	10:22:45	0.036
12/12/2018	10:23:45	0.036
12/12/2018	10:24:45	0.036
12/12/2018	10:25:45	0.034
12/12/2018	10:26:45	0.036
12/12/2018	10:27:45	0.04
12/12/2018	10:28:45	0.039
12/12/2018	10:29:45	0.037
12/12/2018	10:30:45	0.034
12/12/2018	10:31:45	0.096
12/12/2018	10:32:45	0.164
12/12/2018	10:33:45	0.263
12/12/2018	10:34:45	0.168
12/12/2018	10:35:45	0.041
12/12/2018	10:36:45	0.036
12/12/2018	10:37:45	0.036
12/12/2018	10:38:45	0.035
12/12/2018	10:39:45	0.036

12/12/2018	10:40:45	0.038
12/12/2018	10:41:45	0.144
12/12/2018	10:42:45	0.126
12/12/2018	10:43:45	0.079
12/12/2018	10:44:45	0.037
12/12/2018	10:45:45	0.035
12/12/2018	10:46:45	0.035
12/12/2018	10:47:45	0.037
12/12/2018	10:48:45	0.038
12/12/2018	10:49:45	0.037
12/12/2018	10:50:45	0.038
12/12/2018	10:51:45	0.036
12/12/2018	10:52:45	0.037
12/12/2018	10:53:45	0.037
12/12/2018	10:54:45	0.039
12/12/2018	10:55:45	0.039
12/12/2018	10:56:45	0.036
12/12/2018	10:57:45	0.032
12/12/2018	10:58:45	0.033
12/12/2018	10:59:45	0.033
12/12/2018	11:00:45	0.034
12/12/2018	11:01:45	0.033
12/12/2018	11:02:45	0.032
12/12/2018	11:03:45	0.038
12/12/2018	11:04:45	0.027
12/12/2018	11:05:45	0.038
12/12/2018	11:06:45	0.03
12/12/2018	11:07:45	0.027
12/12/2018	11:08:45	0.029
12/12/2018	11:09:45	0.028
12/12/2018	11:10:45	0.027
12/12/2018	11:11:45	0.03
12/12/2018	11:12:45	0.028
12/12/2018	11:13:45	0.031
12/12/2018	11:14:45	0.029
12/12/2018	11:15:45	0.03
12/12/2018	11:16:45	0.031
12/12/2018	11:17:45	0.028
12/12/2018	11:18:45	0.034
12/12/2018	11:19:45	0.03
12/12/2018	11:20:45	0.028
12/12/2018	11:21:45	0.029
12/12/2018	11:22:45	0.03
12/12/2018	11:23:45	0.03
12/12/2018	11:24:45	0.031
12/12/2018	11:25:45	0.026
12/12/2018	11:26:45	0.028

12/12/2018	11:27:45	0.029
12/12/2018	11:28:45	0.029
12/12/2018	11:29:45	0.031
12/12/2018	11:30:45	0.038
12/12/2018	11:31:45	0.028
12/12/2018	11:32:45	0.031
12/12/2018	11:33:45	0.031
12/12/2018	11:34:45	0.029
12/12/2018	11:35:45	0.027
12/12/2018	11:36:45	0.027
12/12/2018	11:37:45	0.028
12/12/2018	11:38:45	0.028
12/12/2018	11:39:45	0.03
12/12/2018	11:40:45	0.029
12/12/2018	11:41:45	0.031
12/12/2018	11:42:45	0.025
12/12/2018	11:43:45	0.028
12/12/2018	11:44:45	0.038
12/12/2018	11:45:45	0.03
12/12/2018	11:46:45	0.036
12/12/2018	11:47:45	0.027
12/12/2018	11:48:45	0.027
12/12/2018	11:49:45	0.031



### Downwind PID

=====  
18/10/08 10:05  
\*\*\*\*\*

Summary

-----  
Unit Name       MiniRAE 3000  
Unit SN         592-910739  
Unit Firmware Ver V1.20B  
-----

Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Pause in Menu Mode  
-----

Site ID         12345678  
User ID         12345678  
-----

Begin           2018/10/08 10:05:10  
End             2018/10/08 18:09:56  
Sample Period(s) 60  
Number of Records 481  
-----

Sensor          VOC(ppm)  
Span            100.000  
Span 2          N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/08 10:02  
Peak            0.467  
Min             0.000  
Average         0.222

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/8/2018 10:05	0.000	0.000	0.000
2	10/8/2018 10:06	0.000	0.000	0.000
3	10/8/2018 10:07	0.000	0.000	0.000
4	10/8/2018 10:08	0.000	0.000	0.000
5	10/8/2018 10:09	0.000	0.000	0.000
6	10/8/2018 10:13	0.000	0.000	0.000

7	10/8/2018 10:14	0.000	0.000	0.000
8	10/8/2018 10:15	0.000	0.000	0.000
9	10/8/2018 10:16	0.000	0.000	0.000
10	10/8/2018 10:17	0.000	0.000	0.000
11	10/8/2018 10:18	0.000	0.000	0.000
12	10/8/2018 10:19	0.000	0.000	0.000
13	10/8/2018 10:20	0.000	0.000	0.000
14	10/8/2018 10:21	0.000	0.000	0.000
15	10/8/2018 10:22	0.000	0.000	0.000
16	10/8/2018 10:23	0.000	0.000	0.000
17	10/8/2018 10:24	0.000	0.000	0.000
18	10/8/2018 10:25	0.000	0.000	0.000
19	10/8/2018 10:26	0.000	0.000	0.000
20	10/8/2018 10:27	0.000	0.000	0.000
21	10/8/2018 10:28	0.000	0.000	0.000
22	10/8/2018 10:29	0.000	0.000	0.000
23	10/8/2018 10:30	0.000	0.000	0.000
24	10/8/2018 10:31	0.000	0.000	0.000
25	10/8/2018 10:32	0.000	0.000	0.000
26	10/8/2018 10:33	0.000	0.000	0.000
27	10/8/2018 10:34	0.000	0.000	0.000
28	10/8/2018 10:35	0.000	0.000	0.000
29	10/8/2018 10:36	0.000	0.000	0.000
30	10/8/2018 10:37	0.000	0.000	0.000
31	10/8/2018 10:38	0.000	0.000	0.000
32	10/8/2018 10:39	0.002	0.044	0.044
33	10/8/2018 10:40	0.025	0.049	0.012
34	10/8/2018 10:41	0.023	0.053	0.001
35	10/8/2018 10:42	0.006	0.032	0.000
36	10/8/2018 10:43	0.002	0.029	0.000
37	10/8/2018 10:44	0.000	0.007	0.000
38	10/8/2018 10:45	0.033	0.068	0.047
39	10/8/2018 10:46	0.022	0.059	0.000
40	10/8/2018 10:47	0.000	0.006	0.000
41	10/8/2018 10:48	0.000	0.000	0.000
42	10/8/2018 10:49	0.012	0.036	0.021
43	10/8/2018 10:50	0.043	0.083	0.050
44	10/8/2018 10:51	0.033	0.054	0.050
45	10/8/2018 10:52	0.037	0.070	0.009
46	10/8/2018 10:53	0.025	0.061	0.026
47	10/8/2018 10:54	0.004	0.025	0.000
48	10/8/2018 10:55	0.023	0.062	0.060
49	10/8/2018 10:56	0.054	0.077	0.073
50	10/8/2018 10:57	0.064	0.119	0.077
51	10/8/2018 10:58	0.050	0.076	0.041
52	10/8/2018 10:59	0.082	0.144	0.062
53	10/8/2018 11:00	0.037	0.081	0.081

54	10/8/2018 11:01	0.026	0.087	0.023
55	10/8/2018 11:02	0.028	0.047	0.036
56	10/8/2018 11:03	0.017	0.036	0.015
57	10/8/2018 11:04	0.013	0.023	0.000
58	10/8/2018 11:05	0.008	0.055	0.030
59	10/8/2018 11:06	0.024	0.051	0.001
60	10/8/2018 11:07	0.012	0.030	0.025
61	10/8/2018 11:08	0.032	0.046	0.028
62	10/8/2018 11:09	0.010	0.021	0.017
63	10/8/2018 11:10	0.023	0.033	0.033
64	10/8/2018 11:11	0.038	0.052	0.038
65	10/8/2018 11:12	0.044	0.066	0.053
66	10/8/2018 11:13	0.058	0.079	0.068
67	10/8/2018 11:14	0.056	0.082	0.060
68	10/8/2018 11:15	0.070	0.091	0.074
69	10/8/2018 11:16	0.080	0.129	0.079
70	10/8/2018 11:17	0.128	0.175	0.175
71	10/8/2018 11:18	0.105	0.178	0.077
72	10/8/2018 11:19	0.084	0.099	0.099
73	10/8/2018 11:20	0.126	0.175	0.133
74	10/8/2018 11:21	0.121	0.140	0.116
75	10/8/2018 11:22	0.114	0.130	0.118
76	10/8/2018 11:23	0.108	0.121	0.112
77	10/8/2018 11:24	0.150	0.214	0.119
78	10/8/2018 11:25	0.107	0.128	0.096
79	10/8/2018 11:26	0.124	0.153	0.153
80	10/8/2018 11:27	0.141	0.165	0.165
81	10/8/2018 11:28	0.127	0.174	0.109
82	10/8/2018 11:29	0.141	0.208	0.175
83	10/8/2018 11:30	0.170	0.202	0.116
84	10/8/2018 11:31	0.120	0.154	0.154
85	10/8/2018 11:32	0.111	0.158	0.142
86	10/8/2018 11:33	0.135	0.175	0.123
87	10/8/2018 11:34	0.103	0.130	0.115
88	10/8/2018 11:35	0.109	0.130	0.109
89	10/8/2018 11:36	0.133	0.185	0.133
90	10/8/2018 11:37	0.115	0.142	0.123
91	10/8/2018 11:38	0.130	0.166	0.126
92	10/8/2018 11:39	0.136	0.202	0.192
93	10/8/2018 11:40	0.146	0.191	0.123
94	10/8/2018 11:41	0.122	0.148	0.117
95	10/8/2018 11:42	0.182	0.248	0.186
96	10/8/2018 11:43	0.145	0.179	0.155
97	10/8/2018 11:44	0.131	0.189	0.110
98	10/8/2018 11:45	0.129	0.176	0.106
99	10/8/2018 11:46	0.166	0.205	0.193
100	10/8/2018 11:47	0.206	0.278	0.239

101	10/8/2018 11:48	0.182	0.245	0.196
102	10/8/2018 11:49	0.188	0.251	0.189
103	10/8/2018 11:50	0.194	0.234	0.184
104	10/8/2018 11:51	0.178	0.222	0.197
105	10/8/2018 11:52	0.304	0.365	0.251
106	10/8/2018 11:53	0.216	0.282	0.194
107	10/8/2018 11:54	0.190	0.246	0.233
108	10/8/2018 11:55	0.287	0.329	0.243
109	10/8/2018 11:56	0.227	0.274	0.194
110	10/8/2018 11:57	0.201	0.249	0.173
111	10/8/2018 11:58	0.189	0.233	0.167
112	10/8/2018 11:59	0.209	0.287	0.192
113	10/8/2018 12:00	0.264	0.359	0.188
114	10/8/2018 12:01	0.186	0.240	0.129
115	10/8/2018 12:02	0.139	0.159	0.159
116	10/8/2018 12:03	0.200	0.250	0.189
117	10/8/2018 12:04	0.172	0.212	0.173
118	10/8/2018 12:05	0.191	0.266	0.194
119	10/8/2018 12:06	0.180	0.228	0.189
120	10/8/2018 12:07	0.168	0.231	0.231
121	10/8/2018 12:08	0.241	0.301	0.234
122	10/8/2018 12:09	0.198	0.253	0.178
123	10/8/2018 12:10	0.198	0.280	0.174
124	10/8/2018 12:11	0.198	0.266	0.200
125	10/8/2018 12:12	0.251	0.358	0.181
126	10/8/2018 12:13	0.194	0.318	0.174
127	10/8/2018 12:14	0.156	0.225	0.209
128	10/8/2018 12:15	0.168	0.197	0.191
129	10/8/2018 12:16	0.165	0.245	0.151
130	10/8/2018 12:17	0.167	0.195	0.184
131	10/8/2018 12:18	0.249	0.313	0.216
132	10/8/2018 12:19	0.212	0.277	0.214
133	10/8/2018 12:20	0.254	0.329	0.233
134	10/8/2018 12:21	0.240	0.300	0.234
135	10/8/2018 12:22	0.247	0.282	0.228
136	10/8/2018 12:23	0.197	0.230	0.199
137	10/8/2018 12:24	0.197	0.259	0.185
138	10/8/2018 12:25	0.218	0.256	0.199
139	10/8/2018 12:26	0.279	0.358	0.352
140	10/8/2018 12:27	0.304	0.405	0.263
141	10/8/2018 12:28	0.324	0.436	0.334
142	10/8/2018 12:29	0.254	0.324	0.185
143	10/8/2018 12:30	0.175	0.240	0.160
144	10/8/2018 12:31	0.181	0.200	0.191
145	10/8/2018 12:32	0.205	0.279	0.227
146	10/8/2018 12:33	0.241	0.302	0.188
147	10/8/2018 12:34	0.207	0.251	0.251



148	10/8/2018 12:35	0.214	0.276	0.168
149	10/8/2018 12:36	0.189	0.300	0.300
150	10/8/2018 12:37	0.308	0.355	0.312
151	10/8/2018 12:38	0.293	0.349	0.247
152	10/8/2018 12:39	0.285	0.430	0.236
153	10/8/2018 12:40	0.207	0.302	0.245
154	10/8/2018 12:41	0.261	0.295	0.260
155	10/8/2018 12:42	0.258	0.321	0.321
156	10/8/2018 12:43	0.277	0.325	0.325
157	10/8/2018 12:44	0.343	0.418	0.381
158	10/8/2018 12:45	0.311	0.442	0.267
159	10/8/2018 12:46	0.231	0.267	0.238
160	10/8/2018 12:47	0.262	0.354	0.275
161	10/8/2018 12:48	0.212	0.280	0.182
162	10/8/2018 12:49	0.239	0.276	0.276
163	10/8/2018 12:50	0.263	0.304	0.252
164	10/8/2018 12:51	0.257	0.282	0.234
165	10/8/2018 12:52	0.228	0.254	0.216
166	10/8/2018 12:53	0.237	0.269	0.253
167	10/8/2018 12:54	0.244	0.318	0.207
168	10/8/2018 12:55	0.199	0.221	0.203
169	10/8/2018 12:56	0.215	0.258	0.252
170	10/8/2018 12:57	0.225	0.254	0.223
171	10/8/2018 12:58	0.223	0.256	0.206
172	10/8/2018 12:59	0.195	0.239	0.171
173	10/8/2018 13:00	0.210	0.234	0.202
174	10/8/2018 13:01	0.227	0.258	0.207
175	10/8/2018 13:02	0.212	0.239	0.221
176	10/8/2018 13:03	0.200	0.222	0.179
177	10/8/2018 13:04	0.228	0.269	0.235
178	10/8/2018 13:05	0.211	0.252	0.189
179	10/8/2018 13:06	0.221	0.268	0.244
180	10/8/2018 13:07	0.257	0.295	0.261
181	10/8/2018 13:08	0.231	0.265	0.209
182	10/8/2018 13:09	0.203	0.232	0.206
183	10/8/2018 13:10	0.221	0.260	0.229
184	10/8/2018 13:11	0.225	0.259	0.201
185	10/8/2018 13:12	0.217	0.261	0.252
186	10/8/2018 13:13	0.238	0.287	0.287
187	10/8/2018 13:14	0.250	0.309	0.226
188	10/8/2018 13:15	0.236	0.302	0.204
189	10/8/2018 13:16	0.241	0.280	0.258
190	10/8/2018 13:17	0.282	0.335	0.271
191	10/8/2018 13:18	0.237	0.272	0.272
192	10/8/2018 13:19	0.271	0.324	0.255
193	10/8/2018 13:20	0.250	0.277	0.247
194	10/8/2018 13:21	0.240	0.279	0.209

195	10/8/2018 13:22	0.227	0.311	0.311
196	10/8/2018 13:23	0.297	0.333	0.295
197	10/8/2018 13:24	0.248	0.326	0.253
198	10/8/2018 13:25	0.273	0.302	0.291
199	10/8/2018 13:26	0.246	0.299	0.280
200	10/8/2018 13:27	0.259	0.352	0.204
201	10/8/2018 13:28	0.251	0.291	0.277
202	10/8/2018 13:29	0.329	0.390	0.284
203	10/8/2018 13:30	0.236	0.288	0.217
204	10/8/2018 13:31	0.224	0.258	0.228
205	10/8/2018 13:32	0.242	0.296	0.221
206	10/8/2018 13:33	0.230	0.300	0.230
207	10/8/2018 13:34	0.260	0.318	0.292
208	10/8/2018 13:35	0.229	0.304	0.233
209	10/8/2018 13:36	0.221	0.270	0.196
210	10/8/2018 13:37	0.206	0.228	0.210
211	10/8/2018 13:38	0.237	0.247	0.231
212	10/8/2018 13:39	0.226	0.265	0.261
213	10/8/2018 13:40	0.226	0.259	0.219
214	10/8/2018 13:41	0.260	0.324	0.240
215	10/8/2018 13:42	0.245	0.264	0.261
216	10/8/2018 13:43	0.244	0.264	0.264
217	10/8/2018 13:44	0.261	0.312	0.279
218	10/8/2018 13:45	0.276	0.297	0.277
219	10/8/2018 13:46	0.276	0.329	0.326
220	10/8/2018 13:47	0.249	0.319	0.274
221	10/8/2018 13:48	0.240	0.283	0.236
222	10/8/2018 13:49	0.228	0.240	0.238
223	10/8/2018 13:50	0.264	0.340	0.276
224	10/8/2018 13:51	0.292	0.391	0.287
225	10/8/2018 13:52	0.250	0.295	0.206
226	10/8/2018 13:53	0.206	0.232	0.203
227	10/8/2018 13:54	0.229	0.254	0.189
228	10/8/2018 13:55	0.237	0.275	0.219
229	10/8/2018 13:56	0.238	0.258	0.211
230	10/8/2018 13:57	0.244	0.296	0.237
231	10/8/2018 13:58	0.249	0.324	0.252
232	10/8/2018 13:59	0.267	0.290	0.289
233	10/8/2018 14:00	0.274	0.341	0.232
234	10/8/2018 14:01	0.282	0.353	0.243
235	10/8/2018 14:02	0.344	0.425	0.329
236	10/8/2018 14:03	0.233	0.318	0.252
237	10/8/2018 14:04	0.244	0.281	0.268
238	10/8/2018 14:05	0.228	0.267	0.220
239	10/8/2018 14:06	0.214	0.243	0.243
240	10/8/2018 14:07	0.253	0.291	0.231
241	10/8/2018 14:08	0.222	0.241	0.237

242	10/8/2018 14:09	0.268	0.315	0.283
243	10/8/2018 14:10	0.277	0.320	0.238
244	10/8/2018 14:11	0.231	0.243	0.239
245	10/8/2018 14:12	0.250	0.278	0.231
246	10/8/2018 14:13	0.258	0.287	0.252
247	10/8/2018 14:14	0.257	0.308	0.243
248	10/8/2018 14:15	0.257	0.313	0.287
249	10/8/2018 14:16	0.225	0.283	0.223
250	10/8/2018 14:17	0.221	0.253	0.217
251	10/8/2018 14:18	0.224	0.249	0.228
252	10/8/2018 14:19	0.230	0.257	0.254
253	10/8/2018 14:20	0.231	0.253	0.230
254	10/8/2018 14:21	0.282	0.322	0.258
255	10/8/2018 14:22	0.255	0.310	0.310
256	10/8/2018 14:23	0.262	0.306	0.245
257	10/8/2018 14:24	0.243	0.261	0.246
258	10/8/2018 14:25	0.276	0.317	0.273
259	10/8/2018 14:26	0.275	0.319	0.253
260	10/8/2018 14:27	0.261	0.281	0.265
261	10/8/2018 14:28	0.271	0.294	0.294
262	10/8/2018 14:29	0.279	0.310	0.304
263	10/8/2018 14:30	0.267	0.306	0.287
264	10/8/2018 14:31	0.280	0.301	0.296
265	10/8/2018 14:32	0.272	0.319	0.305
266	10/8/2018 14:33	0.269	0.323	0.323
267	10/8/2018 14:34	0.314	0.382	0.300
268	10/8/2018 14:35	0.287	0.349	0.279
269	10/8/2018 14:36	0.298	0.342	0.342
270	10/8/2018 14:37	0.331	0.403	0.331
271	10/8/2018 14:38	0.291	0.346	0.335
272	10/8/2018 14:39	0.294	0.334	0.275
273	10/8/2018 14:40	0.269	0.322	0.276
274	10/8/2018 14:41	0.295	0.352	0.283
275	10/8/2018 14:42	0.283	0.303	0.264
276	10/8/2018 14:43	0.292	0.336	0.297
277	10/8/2018 14:44	0.295	0.366	0.281
278	10/8/2018 14:45	0.261	0.285	0.258
279	10/8/2018 14:46	0.284	0.329	0.275
280	10/8/2018 14:47	0.304	0.336	0.304
281	10/8/2018 14:48	0.330	0.378	0.290
282	10/8/2018 14:49	0.274	0.298	0.266
283	10/8/2018 14:50	0.266	0.283	0.275
284	10/8/2018 14:51	0.292	0.385	0.291
285	10/8/2018 14:52	0.294	0.325	0.293
286	10/8/2018 14:53	0.285	0.330	0.274
287	10/8/2018 14:54	0.276	0.327	0.279
288	10/8/2018 14:55	0.267	0.285	0.273

289	10/8/2018 14:56	0.291	0.319	0.319
290	10/8/2018 14:57	0.339	0.417	0.302
291	10/8/2018 14:58	0.327	0.403	0.298
292	10/8/2018 14:59	0.303	0.323	0.289
293	10/8/2018 15:00	0.290	0.308	0.287
294	10/8/2018 15:01	0.281	0.311	0.311
295	10/8/2018 15:02	0.287	0.309	0.287
296	10/8/2018 15:03	0.314	0.357	0.292
297	10/8/2018 15:04	0.296	0.316	0.305
298	10/8/2018 15:05	0.290	0.349	0.274
299	10/8/2018 15:06	0.288	0.322	0.308
300	10/8/2018 15:07	0.293	0.325	0.304
301	10/8/2018 15:08	0.301	0.394	0.275
302	10/8/2018 15:09	0.277	0.297	0.297
303	10/8/2018 15:10	0.283	0.333	0.273
304	10/8/2018 15:11	0.283	0.308	0.302
305	10/8/2018 15:13	0.317	0.388	0.304
306	10/8/2018 15:14	0.289	0.302	0.283
307	10/8/2018 15:15	0.310	0.357	0.285
308	10/8/2018 15:16	0.295	0.320	0.288
309	10/8/2018 15:17	0.285	0.300	0.294
310	10/8/2018 15:18	0.300	0.357	0.301
311	10/8/2018 15:19	0.299	0.319	0.290
312	10/8/2018 15:20	0.310	0.329	0.309
313	10/8/2018 15:21	0.325	0.366	0.321
314	10/8/2018 15:22	0.354	0.463	0.281
315	10/8/2018 15:23	0.276	0.292	0.292
316	10/8/2018 15:24	0.316	0.390	0.301
317	10/8/2018 15:25	0.292	0.326	0.285
318	10/8/2018 15:26	0.285	0.306	0.281
319	10/8/2018 15:27	0.280	0.293	0.262
320	10/8/2018 15:28	0.264	0.274	0.257
321	10/8/2018 15:29	0.288	0.347	0.296
322	10/8/2018 15:30	0.284	0.345	0.333
323	10/8/2018 15:31	0.304	0.325	0.295
324	10/8/2018 15:32	0.288	0.315	0.288
325	10/8/2018 15:33	0.314	0.339	0.310
326	10/8/2018 15:34	0.290	0.307	0.281
327	10/8/2018 15:35	0.291	0.327	0.278
328	10/8/2018 15:36	0.253	0.283	0.258
329	10/8/2018 15:37	0.247	0.278	0.231
330	10/8/2018 15:38	0.228	0.284	0.225
331	10/8/2018 15:39	0.210	0.261	0.183
332	10/8/2018 15:40	0.172	0.182	0.168
333	10/8/2018 15:41	0.176	0.197	0.189
334	10/8/2018 15:42	0.185	0.199	0.183
335	10/8/2018 15:43	0.175	0.207	0.202

336	10/8/2018 15:44	0.160	0.187	0.164
337	10/8/2018 15:45	0.159	0.166	0.161
338	10/8/2018 15:46	0.221	0.262	0.247
339	10/8/2018 15:47	0.260	0.279	0.249
340	10/8/2018 15:48	0.261	0.278	0.246
341	10/8/2018 15:49	0.256	0.276	0.250
342	10/8/2018 15:50	0.256	0.274	0.270
343	10/8/2018 15:51	0.272	0.298	0.276
344	10/8/2018 15:52	0.265	0.274	0.274
345	10/8/2018 15:53	0.279	0.317	0.260
346	10/8/2018 15:54	0.262	0.304	0.279
347	10/8/2018 15:55	0.258	0.276	0.258
348	10/8/2018 15:56	0.251	0.268	0.259
349	10/8/2018 15:57	0.254	0.294	0.266
350	10/8/2018 15:58	0.266	0.312	0.250
351	10/8/2018 15:59	0.254	0.268	0.245
352	10/8/2018 16:00	0.257	0.300	0.247
353	10/8/2018 16:01	0.272	0.345	0.257
354	10/8/2018 16:02	0.262	0.287	0.253
355	10/8/2018 16:03	0.260	0.276	0.263
356	10/8/2018 16:04	0.242	0.263	0.231
357	10/8/2018 16:05	0.253	0.263	0.263
358	10/8/2018 16:06	0.263	0.281	0.281
359	10/8/2018 16:07	0.264	0.281	0.271
360	10/8/2018 16:08	0.253	0.293	0.263
361	10/8/2018 16:09	0.262	0.286	0.276
362	10/8/2018 16:10	0.269	0.292	0.270
363	10/8/2018 16:11	0.301	0.342	0.292
364	10/8/2018 16:12	0.331	0.444	0.300
365	10/8/2018 16:13	0.268	0.293	0.272
366	10/8/2018 16:14	0.265	0.278	0.277
367	10/8/2018 16:15	0.264	0.289	0.259
368	10/8/2018 16:16	0.262	0.292	0.285
369	10/8/2018 16:17	0.270	0.285	0.265
370	10/8/2018 16:18	0.278	0.343	0.273
371	10/8/2018 16:19	0.267	0.282	0.259
372	10/8/2018 16:20	0.266	0.302	0.263
373	10/8/2018 16:21	0.270	0.311	0.262
374	10/8/2018 16:22	0.266	0.287	0.263
375	10/8/2018 16:23	0.262	0.269	0.264
376	10/8/2018 16:24	0.275	0.294	0.281
377	10/8/2018 16:25	0.271	0.282	0.264
378	10/8/2018 16:26	0.265	0.286	0.246
379	10/8/2018 16:27	0.268	0.289	0.269
380	10/8/2018 16:28	0.268	0.281	0.270
381	10/8/2018 16:29	0.262	0.280	0.260
382	10/8/2018 16:30	0.267	0.298	0.268

383	10/8/2018 16:31	0.266	0.293	0.293
384	10/8/2018 16:32	0.274	0.307	0.269
385	10/8/2018 16:33	0.266	0.329	0.270
386	10/8/2018 16:34	0.269	0.312	0.273
387	10/8/2018 16:35	0.280	0.302	0.278
388	10/8/2018 16:36	0.278	0.303	0.273
389	10/8/2018 16:37	0.265	0.280	0.257
390	10/8/2018 16:38	0.271	0.302	0.260
391	10/8/2018 16:39	0.261	0.275	0.259
392	10/8/2018 16:40	0.272	0.300	0.253
393	10/8/2018 16:41	0.261	0.286	0.259
394	10/8/2018 16:42	0.268	0.299	0.273
395	10/8/2018 16:43	0.269	0.285	0.262
396	10/8/2018 16:44	0.270	0.282	0.269
397	10/8/2018 16:45	0.288	0.305	0.301
398	10/8/2018 16:46	0.295	0.370	0.360
399	10/8/2018 16:47	0.298	0.355	0.272
400	10/8/2018 16:48	0.266	0.301	0.254
401	10/8/2018 16:49	0.283	0.326	0.291
402	10/8/2018 16:50	0.274	0.289	0.273
403	10/8/2018 16:51	0.302	0.376	0.287
404	10/8/2018 16:52	0.279	0.319	0.276
405	10/8/2018 16:53	0.293	0.338	0.338
406	10/8/2018 16:54	0.321	0.352	0.342
407	10/8/2018 16:55	0.307	0.356	0.304
408	10/8/2018 16:56	0.326	0.378	0.336
409	10/8/2018 16:57	0.384	0.467	0.417
410	10/8/2018 16:58	0.369	0.436	0.321
411	10/8/2018 16:59	0.332	0.352	0.347
412	10/8/2018 17:00	0.344	0.392	0.307
413	10/8/2018 17:01	0.319	0.357	0.324
414	10/8/2018 17:02	0.317	0.335	0.299
415	10/8/2018 17:03	0.309	0.327	0.309
416	10/8/2018 17:04	0.316	0.341	0.317
417	10/8/2018 17:05	0.307	0.342	0.333
418	10/8/2018 17:06	0.330	0.357	0.325
419	10/8/2018 17:07	0.326	0.348	0.318
420	10/8/2018 17:08	0.315	0.330	0.313
421	10/8/2018 17:09	0.330	0.366	0.316
422	10/8/2018 17:10	0.356	0.396	0.318
423	10/8/2018 17:11	0.334	0.360	0.324
424	10/8/2018 17:12	0.335	0.367	0.320
425	10/8/2018 17:13	0.346	0.383	0.340
426	10/8/2018 17:14	0.338	0.397	0.310
427	10/8/2018 17:15	0.347	0.396	0.331
428	10/8/2018 17:16	0.330	0.350	0.335
429	10/8/2018 17:17	0.334	0.371	0.336

430	10/8/2018 17:18	0.339	0.359	0.325
431	10/8/2018 17:19	0.332	0.359	0.323
432	10/8/2018 17:20	0.342	0.371	0.335
433	10/8/2018 17:21	0.343	0.377	0.374
434	10/8/2018 17:22	0.376	0.420	0.383
435	10/8/2018 17:23	0.345	0.386	0.335
436	10/8/2018 17:24	0.338	0.394	0.347
437	10/8/2018 17:25	0.346	0.376	0.375
438	10/8/2018 17:26	0.338	0.369	0.335
439	10/8/2018 17:27	0.360	0.408	0.337
440	10/8/2018 17:28	0.360	0.433	0.356
441	10/8/2018 17:29	0.359	0.399	0.341
442	10/8/2018 17:30	0.341	0.373	0.331
443	10/8/2018 17:31	0.339	0.360	0.339
444	10/8/2018 17:32	0.338	0.347	0.341
445	10/8/2018 17:33	0.340	0.361	0.320
446	10/8/2018 17:34	0.324	0.345	0.337
447	10/8/2018 17:35	0.347	0.371	0.368
448	10/8/2018 17:36	0.359	0.382	0.340
449	10/8/2018 17:37	0.340	0.374	0.321
450	10/8/2018 17:38	0.331	0.369	0.336
451	10/8/2018 17:39	0.309	0.331	0.304
452	10/8/2018 17:40	0.303	0.326	0.293
453	10/8/2018 17:41	0.303	0.320	0.309
454	10/8/2018 17:42	0.296	0.308	0.301
455	10/8/2018 17:43	0.286	0.298	0.284
456	10/8/2018 17:44	0.285	0.304	0.286
457	10/8/2018 17:45	0.285	0.301	0.275
458	10/8/2018 17:46	0.304	0.352	0.297
459	10/8/2018 17:47	0.289	0.320	0.285
460	10/8/2018 17:48	0.290	0.311	0.302
461	10/8/2018 17:49	0.285	0.313	0.280
462	10/8/2018 17:50	0.289	0.317	0.303
463	10/8/2018 17:51	0.294	0.315	0.287
464	10/8/2018 17:52	0.288	0.297	0.294
465	10/8/2018 17:53	0.287	0.298	0.287
466	10/8/2018 17:54	0.292	0.305	0.285
467	10/8/2018 17:55	0.289	0.308	0.283
468	10/8/2018 17:56	0.284	0.296	0.276
469	10/8/2018 17:57	0.278	0.304	0.274
470	10/8/2018 17:58	0.273	0.304	0.275
471	10/8/2018 17:59	0.281	0.308	0.271
472	10/8/2018 18:00	0.281	0.303	0.282
473	10/8/2018 18:01	0.279	0.290	0.287
474	10/8/2018 18:02	0.292	0.324	0.275
475	10/8/2018 18:03	0.290	0.316	0.280
476	10/8/2018 18:04	0.284	0.300	0.283

477	10/8/2018 18:05	0.277	0.288	0.268
478	10/8/2018 18:06	0.276	0.296	0.269
479	10/8/2018 18:07	0.275	0.285	0.276
480	10/8/2018 18:08	0.275	0.286	0.280
481	10/8/2018 18:09	0.274	0.282	0.279



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18/10/09 08:04

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-910739  
Unit Firmware Ver   V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Pause in Menu Mode  
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Site ID         12345678  
User ID         12345678  
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Begin           2018/10/09 08:05:42  
End             2018/10/09 16:41:58  
Sample Period(s)  60  
Number of Records 514  
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Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas  Isobutylene  
Calibration Time 2018/10/09 07:16  
Peak           3.468  
Min            0.000  
Average        0.004  
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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/9/2018 8:05	0.015	0.212	0.000
2	10/9/2018 8:06	0.000	0.000	0.000
3	10/9/2018 8:07	0.000	0.000	0.000
4	10/9/2018 8:08	0.000	0.000	0.000
5	10/9/2018 8:09	0.000	0.000	0.000
6	10/9/2018 8:10	0.000	0.000	0.000

7	10/9/2018 8:11	0.000	0.000	0.000
8	10/9/2018 8:12	0.000	0.000	0.000
9	10/9/2018 8:13	0.000	0.000	0.000
10	10/9/2018 8:14	0.000	0.000	0.000
11	10/9/2018 8:15	0.000	0.000	0.000
12	10/9/2018 8:16	0.000	0.000	0.000
13	10/9/2018 8:17	0.000	0.000	0.000
14	10/9/2018 8:18	0.000	0.000	0.000
15	10/9/2018 8:19	0.000	0.000	0.000
16	10/9/2018 8:20	0.000	0.000	0.000
17	10/9/2018 8:21	0.000	0.000	0.000
18	10/9/2018 8:22	0.000	0.000	0.000
19	10/9/2018 8:23	0.000	0.000	0.000
20	10/9/2018 8:24	0.000	0.000	0.000
21	10/9/2018 8:25	0.000	0.000	0.000
22	10/9/2018 8:26	0.000	0.000	0.000
23	10/9/2018 8:27	0.000	0.000	0.000
24	10/9/2018 8:28	0.000	0.000	0.000
25	10/9/2018 8:29	0.000	0.000	0.000
26	10/9/2018 8:30	0.000	0.000	0.000
27	10/9/2018 8:31	0.000	0.000	0.000
28	10/9/2018 8:32	0.000	0.000	0.000
29	10/9/2018 8:33	0.000	0.000	0.000
30	10/9/2018 8:34	0.000	0.000	0.000
31	10/9/2018 8:35	0.000	0.000	0.000
32	10/9/2018 8:36	0.000	0.000	0.000
33	10/9/2018 8:37	0.000	0.000	0.000
34	10/9/2018 8:38	0.000	0.000	0.000
35	10/9/2018 8:39	0.000	0.000	0.000
36	10/9/2018 8:40	0.000	0.000	0.000
37	10/9/2018 8:41	0.000	0.000	0.000
38	10/9/2018 8:42	0.000	0.000	0.000
39	10/9/2018 8:43	0.000	0.000	0.000
40	10/9/2018 8:44	0.000	0.000	0.000
41	10/9/2018 8:45	0.000	0.000	0.000
42	10/9/2018 8:46	0.000	0.000	0.000
43	10/9/2018 8:47	0.000	0.000	0.000
44	10/9/2018 8:48	0.000	0.000	0.000
45	10/9/2018 8:49	0.000	0.000	0.000
46	10/9/2018 8:50	0.000	0.000	0.000
47	10/9/2018 8:51	0.000	0.000	0.000
48	10/9/2018 8:52	0.000	0.000	0.000
49	10/9/2018 8:53	0.000	0.000	0.000
50	10/9/2018 8:54	0.000	0.000	0.000
51	10/9/2018 8:55	0.000	0.000	0.000
52	10/9/2018 8:56	0.000	0.000	0.000
53	10/9/2018 8:57	0.000	0.000	0.000

54	10/9/2018 8:58	0.000	0.000	0.000
55	10/9/2018 8:59	0.000	0.000	0.000
56	10/9/2018 9:00	0.000	0.000	0.000
57	10/9/2018 9:01	0.000	0.000	0.000
58	10/9/2018 9:02	0.000	0.000	0.000
59	10/9/2018 9:03	0.000	0.000	0.000
60	10/9/2018 9:04	0.000	0.000	0.000
61	10/9/2018 9:05	0.000	0.000	0.000
62	10/9/2018 9:06	0.000	0.000	0.000
63	10/9/2018 9:07	0.000	0.000	0.000
64	10/9/2018 9:08	0.000	0.000	0.000
65	10/9/2018 9:09	0.000	0.000	0.000
66	10/9/2018 9:12	1.259	3.468	0.000
67	10/9/2018 9:13	0.000	0.000	0.000
68	10/9/2018 9:14	0.000	0.000	0.000
69	10/9/2018 9:15	0.000	0.000	0.000
70	10/9/2018 9:16	0.000	0.000	0.000
71	10/9/2018 9:17	0.000	0.000	0.000
72	10/9/2018 9:18	0.000	0.000	0.000
73	10/9/2018 9:19	0.000	0.000	0.000
74	10/9/2018 9:20	0.000	0.000	0.000
75	10/9/2018 9:21	0.000	0.000	0.000
76	10/9/2018 9:22	0.000	0.000	0.000
77	10/9/2018 9:23	0.000	0.000	0.000
78	10/9/2018 9:24	0.000	0.000	0.000
79	10/9/2018 9:25	0.000	0.000	0.000
80	10/9/2018 9:26	0.000	0.000	0.000
81	10/9/2018 9:27	0.000	0.000	0.000
82	10/9/2018 9:28	0.000	0.000	0.000
83	10/9/2018 9:29	0.000	0.000	0.000
84	10/9/2018 9:30	0.000	0.000	0.000
85	10/9/2018 9:31	0.000	0.000	0.000
86	10/9/2018 9:32	0.000	0.000	0.000
87	10/9/2018 9:33	0.000	0.000	0.000
88	10/9/2018 9:34	0.000	0.000	0.000
89	10/9/2018 9:35	0.000	0.000	0.000
90	10/9/2018 9:36	0.000	0.000	0.000
91	10/9/2018 9:37	0.000	0.000	0.000
92	10/9/2018 9:39	0.475	1.270	0.611
93	10/9/2018 9:40	0.242	1.005	0.000
94	10/9/2018 9:41	0.000	0.000	0.000
95	10/9/2018 9:42	0.000	0.000	0.000
96	10/9/2018 9:43	0.000	0.000	0.000
97	10/9/2018 9:44	0.000	0.000	0.000
98	10/9/2018 9:45	0.000	0.000	0.000
99	10/9/2018 9:46	0.000	0.000	0.000
100	10/9/2018 9:47	0.000	0.000	0.000

101	10/9/2018 9:48	0.000	0.000	0.000
102	10/9/2018 9:49	0.000	0.000	0.000
103	10/9/2018 9:50	0.000	0.000	0.000
104	10/9/2018 9:51	0.000	0.000	0.000
105	10/9/2018 9:52	0.000	0.000	0.000
106	10/9/2018 9:53	0.000	0.000	0.000
107	10/9/2018 9:54	0.000	0.000	0.000
108	10/9/2018 9:55	0.000	0.000	0.000
109	10/9/2018 9:56	0.000	0.000	0.000
110	10/9/2018 9:57	0.000	0.000	0.000
111	10/9/2018 9:58	0.000	0.000	0.000
112	10/9/2018 9:59	0.000	0.000	0.000
113	10/9/2018 10:00	0.000	0.000	0.000
114	10/9/2018 10:01	0.000	0.000	0.000
115	10/9/2018 10:02	0.000	0.000	0.000
116	10/9/2018 10:03	0.000	0.000	0.000
117	10/9/2018 10:04	0.000	0.000	0.000
118	10/9/2018 10:05	0.000	0.000	0.000
119	10/9/2018 10:06	0.000	0.000	0.000
120	10/9/2018 10:07	0.000	0.000	0.000
121	10/9/2018 10:08	0.000	0.000	0.000
122	10/9/2018 10:09	0.000	0.000	0.000
123	10/9/2018 10:10	0.000	0.000	0.000
124	10/9/2018 10:11	0.000	0.000	0.000
125	10/9/2018 10:12	0.000	0.000	0.000
126	10/9/2018 10:13	0.000	0.000	0.000
127	10/9/2018 10:14	0.000	0.000	0.000
128	10/9/2018 10:15	0.000	0.000	0.000
129	10/9/2018 10:16	0.000	0.000	0.000
130	10/9/2018 10:17	0.000	0.000	0.000
131	10/9/2018 10:18	0.000	0.000	0.000
132	10/9/2018 10:19	0.000	0.000	0.000
133	10/9/2018 10:20	0.000	0.000	0.000
134	10/9/2018 10:21	0.000	0.000	0.000
135	10/9/2018 10:22	0.000	0.000	0.000
136	10/9/2018 10:23	0.000	0.000	0.000
137	10/9/2018 10:24	0.000	0.000	0.000
138	10/9/2018 10:25	0.000	0.000	0.000
139	10/9/2018 10:26	0.000	0.000	0.000
140	10/9/2018 10:27	0.000	0.000	0.000
141	10/9/2018 10:28	0.000	0.000	0.000
142	10/9/2018 10:29	0.000	0.000	0.000
143	10/9/2018 10:30	0.000	0.000	0.000
144	10/9/2018 10:31	0.000	0.000	0.000
145	10/9/2018 10:32	0.000	0.000	0.000
146	10/9/2018 10:33	0.000	0.000	0.000
147	10/9/2018 10:34	0.000	0.000	0.000

148	10/9/2018 10:35	0.000	0.000	0.000
149	10/9/2018 10:36	0.000	0.000	0.000
150	10/9/2018 10:37	0.000	0.000	0.000
151	10/9/2018 10:38	0.000	0.000	0.000
152	10/9/2018 10:39	0.000	0.000	0.000
153	10/9/2018 10:40	0.000	0.000	0.000
154	10/9/2018 10:41	0.000	0.000	0.000
155	10/9/2018 10:42	0.000	0.000	0.000
156	10/9/2018 10:43	0.000	0.000	0.000
157	10/9/2018 10:44	0.000	0.000	0.000
158	10/9/2018 10:45	0.000	0.000	0.000
159	10/9/2018 10:46	0.000	0.000	0.000
160	10/9/2018 10:47	0.000	0.000	0.000
161	10/9/2018 10:48	0.000	0.000	0.000
162	10/9/2018 10:49	0.000	0.000	0.000
163	10/9/2018 10:50	0.000	0.000	0.000
164	10/9/2018 10:51	0.000	0.000	0.000
165	10/9/2018 10:52	0.000	0.000	0.000
166	10/9/2018 10:53	0.000	0.000	0.000
167	10/9/2018 10:54	0.000	0.000	0.000
168	10/9/2018 10:55	0.000	0.000	0.000
169	10/9/2018 10:56	0.000	0.000	0.000
170	10/9/2018 10:57	0.000	0.000	0.000
171	10/9/2018 10:58	0.000	0.000	0.000
172	10/9/2018 10:59	0.000	0.000	0.000
173	10/9/2018 11:00	0.000	0.000	0.000
174	10/9/2018 11:01	0.000	0.000	0.000
175	10/9/2018 11:02	0.000	0.000	0.000
176	10/9/2018 11:03	0.000	0.000	0.000
177	10/9/2018 11:04	0.000	0.000	0.000
178	10/9/2018 11:05	0.000	0.000	0.000
179	10/9/2018 11:06	0.000	0.000	0.000
180	10/9/2018 11:07	0.000	0.000	0.000
181	10/9/2018 11:08	0.000	0.000	0.000
182	10/9/2018 11:09	0.000	0.000	0.000
183	10/9/2018 11:10	0.000	0.000	0.000
184	10/9/2018 11:11	0.000	0.000	0.000
185	10/9/2018 11:12	0.000	0.000	0.000
186	10/9/2018 11:13	0.000	0.000	0.000
187	10/9/2018 11:14	0.000	0.000	0.000
188	10/9/2018 11:15	0.000	0.000	0.000
189	10/9/2018 11:16	0.000	0.000	0.000
190	10/9/2018 11:17	0.000	0.000	0.000
191	10/9/2018 11:18	0.000	0.000	0.000
192	10/9/2018 11:19	0.000	0.000	0.000
193	10/9/2018 11:20	0.000	0.000	0.000
194	10/9/2018 11:21	0.000	0.000	0.000

195	10/9/2018 11:22	0.000	0.000	0.000
196	10/9/2018 11:23	0.000	0.000	0.000
197	10/9/2018 11:24	0.000	0.000	0.000
198	10/9/2018 11:25	0.000	0.000	0.000
199	10/9/2018 11:26	0.000	0.000	0.000
200	10/9/2018 11:27	0.000	0.000	0.000
201	10/9/2018 11:28	0.000	0.000	0.000
202	10/9/2018 11:29	0.000	0.000	0.000
203	10/9/2018 11:30	0.000	0.000	0.000
204	10/9/2018 11:31	0.000	0.000	0.000
205	10/9/2018 11:32	0.000	0.000	0.000
206	10/9/2018 11:33	0.000	0.000	0.000
207	10/9/2018 11:34	0.000	0.000	0.000
208	10/9/2018 11:35	0.000	0.000	0.000
209	10/9/2018 11:36	0.000	0.000	0.000
210	10/9/2018 11:37	0.000	0.000	0.000
211	10/9/2018 11:38	0.000	0.000	0.000
212	10/9/2018 11:39	0.000	0.000	0.000
213	10/9/2018 11:40	0.000	0.000	0.000
214	10/9/2018 11:41	0.000	0.000	0.000
215	10/9/2018 11:42	0.000	0.000	0.000
216	10/9/2018 11:43	0.000	0.000	0.000
217	10/9/2018 11:44	0.000	0.000	0.000
218	10/9/2018 11:45	0.000	0.000	0.000
219	10/9/2018 11:46	0.000	0.000	0.000
220	10/9/2018 11:47	0.000	0.000	0.000
221	10/9/2018 11:48	0.000	0.000	0.000
222	10/9/2018 11:49	0.000	0.000	0.000
223	10/9/2018 11:50	0.000	0.000	0.000
224	10/9/2018 11:51	0.000	0.000	0.000
225	10/9/2018 11:52	0.000	0.000	0.000
226	10/9/2018 11:53	0.000	0.000	0.000
227	10/9/2018 11:54	0.000	0.000	0.000
228	10/9/2018 11:55	0.000	0.000	0.000
229	10/9/2018 11:56	0.000	0.000	0.000
230	10/9/2018 11:57	0.000	0.000	0.000
231	10/9/2018 11:58	0.000	0.000	0.000
232	10/9/2018 11:59	0.000	0.000	0.000
233	10/9/2018 12:00	0.000	0.000	0.000
234	10/9/2018 12:01	0.000	0.000	0.000
235	10/9/2018 12:02	0.000	0.000	0.000
236	10/9/2018 12:03	0.000	0.000	0.000
237	10/9/2018 12:04	0.000	0.000	0.000
238	10/9/2018 12:05	0.000	0.000	0.000
239	10/9/2018 12:06	0.000	0.000	0.000
240	10/9/2018 12:07	0.000	0.000	0.000
241	10/9/2018 12:08	0.000	0.000	0.000

242	10/9/2018 12:09	0.000	0.000	0.000
243	10/9/2018 12:10	0.000	0.000	0.000
244	10/9/2018 12:11	0.000	0.000	0.000
245	10/9/2018 12:12	0.000	0.000	0.000
246	10/9/2018 12:13	0.000	0.000	0.000
247	10/9/2018 12:14	0.000	0.000	0.000
248	10/9/2018 12:15	0.000	0.000	0.000
249	10/9/2018 12:16	0.000	0.000	0.000
250	10/9/2018 12:17	0.000	0.000	0.000
251	10/9/2018 12:18	0.000	0.000	0.000
252	10/9/2018 12:19	0.000	0.000	0.000
253	10/9/2018 12:20	0.000	0.000	0.000
254	10/9/2018 12:21	0.000	0.000	0.000
255	10/9/2018 12:22	0.000	0.000	0.000
256	10/9/2018 12:23	0.000	0.000	0.000
257	10/9/2018 12:24	0.000	0.000	0.000
258	10/9/2018 12:25	0.000	0.000	0.000
259	10/9/2018 12:26	0.000	0.000	0.000
260	10/9/2018 12:27	0.000	0.000	0.000
261	10/9/2018 12:28	0.000	0.000	0.000
262	10/9/2018 12:29	0.000	0.000	0.000
263	10/9/2018 12:30	0.000	0.000	0.000
264	10/9/2018 12:31	0.000	0.000	0.000
265	10/9/2018 12:32	0.000	0.000	0.000
266	10/9/2018 12:33	0.000	0.000	0.000
267	10/9/2018 12:34	0.000	0.000	0.000
268	10/9/2018 12:35	0.000	0.000	0.000
269	10/9/2018 12:36	0.000	0.000	0.000
270	10/9/2018 12:37	0.000	0.000	0.000
271	10/9/2018 12:38	0.000	0.000	0.000
272	10/9/2018 12:39	0.000	0.000	0.000
273	10/9/2018 12:40	0.000	0.000	0.000
274	10/9/2018 12:41	0.000	0.000	0.000
275	10/9/2018 12:42	0.000	0.000	0.000
276	10/9/2018 12:43	0.000	0.000	0.000
277	10/9/2018 12:44	0.000	0.000	0.000
278	10/9/2018 12:45	0.000	0.000	0.000
279	10/9/2018 12:46	0.000	0.000	0.000
280	10/9/2018 12:47	0.000	0.000	0.000
281	10/9/2018 12:48	0.000	0.000	0.000
282	10/9/2018 12:49	0.000	0.000	0.000
283	10/9/2018 12:50	0.000	0.000	0.000
284	10/9/2018 12:51	0.000	0.000	0.000
285	10/9/2018 12:52	0.000	0.000	0.000
286	10/9/2018 12:53	0.000	0.000	0.000
287	10/9/2018 12:54	0.000	0.000	0.000
288	10/9/2018 12:55	0.000	0.000	0.000

289	10/9/2018 12:56	0.000	0.000	0.000
290	10/9/2018 12:57	0.000	0.000	0.000
291	10/9/2018 12:58	0.000	0.000	0.000
292	10/9/2018 12:59	0.000	0.000	0.000
293	10/9/2018 13:00	0.000	0.000	0.000
294	10/9/2018 13:01	0.000	0.000	0.000
295	10/9/2018 13:02	0.000	0.000	0.000
296	10/9/2018 13:03	0.000	0.000	0.000
297	10/9/2018 13:04	0.000	0.000	0.000
298	10/9/2018 13:05	0.000	0.000	0.000
299	10/9/2018 13:06	0.000	0.000	0.000
300	10/9/2018 13:07	0.000	0.000	0.000
301	10/9/2018 13:08	0.000	0.000	0.000
302	10/9/2018 13:09	0.000	0.000	0.000
303	10/9/2018 13:10	0.000	0.000	0.000
304	10/9/2018 13:11	0.000	0.000	0.000
305	10/9/2018 13:12	0.000	0.000	0.000
306	10/9/2018 13:13	0.000	0.000	0.000
307	10/9/2018 13:14	0.000	0.000	0.000
308	10/9/2018 13:15	0.000	0.000	0.000
309	10/9/2018 13:16	0.000	0.000	0.000
310	10/9/2018 13:17	0.000	0.000	0.000
311	10/9/2018 13:18	0.000	0.000	0.000
312	10/9/2018 13:19	0.000	0.000	0.000
313	10/9/2018 13:20	0.000	0.000	0.000
314	10/9/2018 13:21	0.000	0.000	0.000
315	10/9/2018 13:22	0.000	0.000	0.000
316	10/9/2018 13:23	0.000	0.000	0.000
317	10/9/2018 13:24	0.000	0.000	0.000
318	10/9/2018 13:25	0.000	0.000	0.000
319	10/9/2018 13:26	0.000	0.000	0.000
320	10/9/2018 13:27	0.000	0.000	0.000
321	10/9/2018 13:28	0.000	0.000	0.000
322	10/9/2018 13:29	0.000	0.000	0.000
323	10/9/2018 13:30	0.000	0.000	0.000
324	10/9/2018 13:31	0.000	0.000	0.000
325	10/9/2018 13:32	0.000	0.000	0.000
326	10/9/2018 13:33	0.000	0.000	0.000
327	10/9/2018 13:34	0.000	0.000	0.000
328	10/9/2018 13:35	0.000	0.000	0.000
329	10/9/2018 13:36	0.000	0.000	0.000
330	10/9/2018 13:37	0.000	0.000	0.000
331	10/9/2018 13:38	0.000	0.000	0.000
332	10/9/2018 13:39	0.000	0.000	0.000
333	10/9/2018 13:40	0.000	0.000	0.000
334	10/9/2018 13:41	0.000	0.000	0.000
335	10/9/2018 13:42	0.000	0.000	0.000



336	10/9/2018 13:43	0.000	0.000	0.000
337	10/9/2018 13:44	0.000	0.000	0.000
338	10/9/2018 13:45	0.000	0.000	0.000
339	10/9/2018 13:46	0.000	0.000	0.000
340	10/9/2018 13:47	0.000	0.000	0.000
341	10/9/2018 13:48	0.000	0.000	0.000
342	10/9/2018 13:49	0.000	0.000	0.000
343	10/9/2018 13:50	0.000	0.000	0.000
344	10/9/2018 13:51	0.000	0.000	0.000
345	10/9/2018 13:52	0.000	0.000	0.000
346	10/9/2018 13:53	0.000	0.000	0.000
347	10/9/2018 13:54	0.000	0.000	0.000
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349	10/9/2018 13:56	0.000	0.000	0.000
350	10/9/2018 13:57	0.000	0.000	0.000
351	10/9/2018 13:58	0.000	0.000	0.000
352	10/9/2018 13:59	0.000	0.000	0.000
353	10/9/2018 14:00	0.000	0.000	0.000
354	10/9/2018 14:01	0.000	0.000	0.000
355	10/9/2018 14:02	0.000	0.000	0.000
356	10/9/2018 14:03	0.000	0.000	0.000
357	10/9/2018 14:04	0.000	0.000	0.000
358	10/9/2018 14:05	0.000	0.000	0.000
359	10/9/2018 14:06	0.000	0.000	0.000
360	10/9/2018 14:07	0.000	0.000	0.000
361	10/9/2018 14:08	0.000	0.000	0.000
362	10/9/2018 14:09	0.000	0.000	0.000
363	10/9/2018 14:10	0.000	0.000	0.000
364	10/9/2018 14:11	0.000	0.000	0.000
365	10/9/2018 14:12	0.000	0.000	0.000
366	10/9/2018 14:13	0.000	0.000	0.000
367	10/9/2018 14:14	0.000	0.000	0.000
368	10/9/2018 14:15	0.000	0.000	0.000
369	10/9/2018 14:16	0.000	0.000	0.000
370	10/9/2018 14:17	0.000	0.000	0.000
371	10/9/2018 14:18	0.000	0.000	0.000
372	10/9/2018 14:19	0.000	0.000	0.000
373	10/9/2018 14:20	0.000	0.000	0.000
374	10/9/2018 14:21	0.000	0.000	0.000
375	10/9/2018 14:22	0.000	0.000	0.000
376	10/9/2018 14:23	0.000	0.000	0.000
377	10/9/2018 14:24	0.000	0.000	0.000
378	10/9/2018 14:25	0.000	0.000	0.000
379	10/9/2018 14:26	0.000	0.000	0.000
380	10/9/2018 14:27	0.000	0.000	0.000
381	10/9/2018 14:28	0.000	0.000	0.000
382	10/9/2018 14:29	0.000	0.000	0.000

383	10/9/2018 14:30	0.000	0.000	0.000
384	10/9/2018 14:31	0.000	0.000	0.000
385	10/9/2018 14:32	0.000	0.000	0.000
386	10/9/2018 14:33	0.000	0.000	0.000
387	10/9/2018 14:34	0.000	0.000	0.000
388	10/9/2018 14:35	0.000	0.000	0.000
389	10/9/2018 14:36	0.000	0.000	0.000
390	10/9/2018 14:37	0.000	0.000	0.000
391	10/9/2018 14:38	0.000	0.000	0.000
392	10/9/2018 14:39	0.000	0.000	0.000
393	10/9/2018 14:40	0.000	0.000	0.000
394	10/9/2018 14:41	0.000	0.000	0.000
395	10/9/2018 14:42	0.000	0.000	0.000
396	10/9/2018 14:43	0.000	0.000	0.000
397	10/9/2018 14:44	0.000	0.000	0.000
398	10/9/2018 14:45	0.000	0.000	0.000
399	10/9/2018 14:46	0.000	0.000	0.000
400	10/9/2018 14:47	0.000	0.000	0.000
401	10/9/2018 14:48	0.000	0.000	0.000
402	10/9/2018 14:49	0.000	0.000	0.000
403	10/9/2018 14:50	0.000	0.000	0.000
404	10/9/2018 14:51	0.000	0.000	0.000
405	10/9/2018 14:52	0.000	0.000	0.000
406	10/9/2018 14:53	0.000	0.000	0.000
407	10/9/2018 14:54	0.000	0.000	0.000
408	10/9/2018 14:55	0.000	0.000	0.000
409	10/9/2018 14:56	0.000	0.000	0.000
410	10/9/2018 14:57	0.000	0.000	0.000
411	10/9/2018 14:58	0.000	0.000	0.000
412	10/9/2018 14:59	0.000	0.000	0.000
413	10/9/2018 15:00	0.000	0.000	0.000
414	10/9/2018 15:01	0.000	0.000	0.000
415	10/9/2018 15:02	0.000	0.000	0.000
416	10/9/2018 15:03	0.000	0.000	0.000
417	10/9/2018 15:04	0.000	0.000	0.000
418	10/9/2018 15:05	0.000	0.000	0.000
419	10/9/2018 15:06	0.000	0.000	0.000
420	10/9/2018 15:07	0.000	0.000	0.000
421	10/9/2018 15:08	0.000	0.000	0.000
422	10/9/2018 15:09	0.000	0.000	0.000
423	10/9/2018 15:10	0.000	0.000	0.000
424	10/9/2018 15:11	0.000	0.000	0.000
425	10/9/2018 15:12	0.000	0.000	0.000
426	10/9/2018 15:13	0.000	0.000	0.000
427	10/9/2018 15:14	0.000	0.000	0.000
428	10/9/2018 15:15	0.000	0.000	0.000
429	10/9/2018 15:16	0.000	0.000	0.000

430	10/9/2018 15:17	0.000	0.000	0.000
431	10/9/2018 15:18	0.000	0.000	0.000
432	10/9/2018 15:19	0.000	0.000	0.000
433	10/9/2018 15:20	0.000	0.000	0.000
434	10/9/2018 15:21	0.000	0.000	0.000
435	10/9/2018 15:22	0.000	0.000	0.000
436	10/9/2018 15:23	0.000	0.000	0.000
437	10/9/2018 15:24	0.000	0.000	0.000
438	10/9/2018 15:25	0.000	0.000	0.000
439	10/9/2018 15:26	0.000	0.000	0.000
440	10/9/2018 15:27	0.000	0.000	0.000
441	10/9/2018 15:28	0.000	0.000	0.000
442	10/9/2018 15:29	0.000	0.000	0.000
443	10/9/2018 15:30	0.000	0.000	0.000
444	10/9/2018 15:31	0.000	0.000	0.000
445	10/9/2018 15:32	0.000	0.000	0.000
446	10/9/2018 15:33	0.000	0.000	0.000
447	10/9/2018 15:34	0.000	0.000	0.000
448	10/9/2018 15:35	0.000	0.000	0.000
449	10/9/2018 15:36	0.000	0.000	0.000
450	10/9/2018 15:37	0.000	0.000	0.000
451	10/9/2018 15:38	0.000	0.000	0.000
452	10/9/2018 15:39	0.000	0.000	0.000
453	10/9/2018 15:40	0.000	0.000	0.000
454	10/9/2018 15:41	0.000	0.000	0.000
455	10/9/2018 15:42	0.000	0.000	0.000
456	10/9/2018 15:43	0.000	0.000	0.000
457	10/9/2018 15:44	0.000	0.000	0.000
458	10/9/2018 15:45	0.000	0.000	0.000
459	10/9/2018 15:46	0.000	0.000	0.000
460	10/9/2018 15:47	0.000	0.000	0.000
461	10/9/2018 15:48	0.000	0.000	0.000
462	10/9/2018 15:49	0.000	0.000	0.000
463	10/9/2018 15:50	0.000	0.000	0.000
464	10/9/2018 15:51	0.000	0.000	0.000
465	10/9/2018 15:52	0.000	0.000	0.000
466	10/9/2018 15:53	0.000	0.000	0.000
467	10/9/2018 15:54	0.000	0.000	0.000
468	10/9/2018 15:55	0.000	0.000	0.000
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470	10/9/2018 15:57	0.000	0.000	0.000
471	10/9/2018 15:58	0.000	0.000	0.000
472	10/9/2018 15:59	0.000	0.000	0.000
473	10/9/2018 16:00	0.000	0.000	0.000
474	10/9/2018 16:01	0.000	0.000	0.000
475	10/9/2018 16:02	0.000	0.000	0.000
476	10/9/2018 16:03	0.000	0.000	0.000

477	10/9/2018 16:04	0.000	0.000	0.000
478	10/9/2018 16:05	0.000	0.000	0.000
479	10/9/2018 16:06	0.000	0.000	0.000
480	10/9/2018 16:07	0.000	0.000	0.000
481	10/9/2018 16:08	0.000	0.000	0.000
482	10/9/2018 16:09	0.000	0.000	0.000
483	10/9/2018 16:10	0.000	0.000	0.000
484	10/9/2018 16:11	0.000	0.000	0.000
485	10/9/2018 16:12	0.000	0.000	0.000
486	10/9/2018 16:13	0.000	0.000	0.000
487	10/9/2018 16:14	0.000	0.000	0.000
488	10/9/2018 16:15	0.000	0.000	0.000
489	10/9/2018 16:16	0.000	0.000	0.000
490	10/9/2018 16:17	0.000	0.000	0.000
491	10/9/2018 16:18	0.000	0.000	0.000
492	10/9/2018 16:19	0.000	0.000	0.000
493	10/9/2018 16:20	0.000	0.000	0.000
494	10/9/2018 16:21	0.000	0.000	0.000
495	10/9/2018 16:22	0.000	0.000	0.000
496	10/9/2018 16:23	0.000	0.000	0.000
497	10/9/2018 16:24	0.000	0.000	0.000
498	10/9/2018 16:25	0.000	0.000	0.000
499	10/9/2018 16:26	0.000	0.000	0.000
500	10/9/2018 16:27	0.000	0.000	0.000
501	10/9/2018 16:28	0.000	0.000	0.000
502	10/9/2018 16:29	0.000	0.000	0.000
503	10/9/2018 16:30	0.000	0.000	0.000
504	10/9/2018 16:31	0.000	0.000	0.000
505	10/9/2018 16:32	0.000	0.000	0.000
506	10/9/2018 16:33	0.000	0.000	0.000
507	10/9/2018 16:34	0.000	0.000	0.000
508	10/9/2018 16:35	0.000	0.000	0.000
509	10/9/2018 16:36	0.000	0.000	0.000
510	10/9/2018 16:37	0.000	0.000	0.000
511	10/9/2018 16:38	0.000	0.000	0.000
512	10/9/2018 16:39	0.000	0.000	0.000
513	10/9/2018 16:40	0.000	0.000	0.000
514	10/9/2018 16:41	0.000	0.000	0.000

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18/10/10 08:39  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-910739  
Unit Firmware Ver   V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
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Site ID         12345678  
User ID         12345678  
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Begin           2018/10/10 08:40:33  
End             2018/10/10 16:15:29  
Sample Period(s)  60  
Number of Records 455  
-----

Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas  Isobutylene  
Calibration Time 2018/10/10 07:58  
Peak           0.000  
Min            0.000  
Average        0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/10/2018 8:40	0.000	0.000	0.000
2	10/10/2018 8:41	0.000	0.000	0.000
3	10/10/2018 8:42	0.000	0.000	0.000
4	10/10/2018 8:43	0.000	0.000	0.000
5	10/10/2018 8:44	0.000	0.000	0.000
6	10/10/2018 8:45	0.000	0.000	0.000

7	10/10/2018 8:46	0.000	0.000	0.000
8	10/10/2018 8:47	0.000	0.000	0.000
9	10/10/2018 8:48	0.000	0.000	0.000
10	10/10/2018 8:49	0.000	0.000	0.000
11	10/10/2018 8:50	0.000	0.000	0.000
12	10/10/2018 8:51	0.000	0.000	0.000
13	10/10/2018 8:52	0.000	0.000	0.000
14	10/10/2018 8:53	0.000	0.000	0.000
15	10/10/2018 8:54	0.000	0.000	0.000
16	10/10/2018 8:55	0.000	0.000	0.000
17	10/10/2018 8:56	0.000	0.000	0.000
18	10/10/2018 8:57	0.000	0.000	0.000
19	10/10/2018 8:58	0.000	0.000	0.000
20	10/10/2018 8:59	0.000	0.000	0.000
21	10/10/2018 9:00	0.000	0.000	0.000
22	10/10/2018 9:01	0.000	0.000	0.000
23	10/10/2018 9:02	0.000	0.000	0.000
24	10/10/2018 9:03	0.000	0.000	0.000
25	10/10/2018 9:04	0.000	0.000	0.000
26	10/10/2018 9:05	0.000	0.000	0.000
27	10/10/2018 9:06	0.000	0.000	0.000
28	10/10/2018 9:07	0.000	0.000	0.000
29	10/10/2018 9:08	0.000	0.000	0.000
30	10/10/2018 9:09	0.000	0.000	0.000
31	10/10/2018 9:10	0.000	0.000	0.000
32	10/10/2018 9:11	0.000	0.000	0.000
33	10/10/2018 9:12	0.000	0.000	0.000
34	10/10/2018 9:13	0.000	0.000	0.000
35	10/10/2018 9:14	0.000	0.000	0.000
36	10/10/2018 9:15	0.000	0.000	0.000
37	10/10/2018 9:16	0.000	0.000	0.000
38	10/10/2018 9:17	0.000	0.000	0.000
39	10/10/2018 9:18	0.000	0.000	0.000
40	10/10/2018 9:19	0.000	0.000	0.000
41	10/10/2018 9:20	0.000	0.000	0.000
42	10/10/2018 9:21	0.000	0.000	0.000
43	10/10/2018 9:22	0.000	0.000	0.000
44	10/10/2018 9:23	0.000	0.000	0.000
45	10/10/2018 9:24	0.000	0.000	0.000
46	10/10/2018 9:25	0.000	0.000	0.000
47	10/10/2018 9:26	0.000	0.000	0.000
48	10/10/2018 9:27	0.000	0.000	0.000
49	10/10/2018 9:28	0.000	0.000	0.000
50	10/10/2018 9:29	0.000	0.000	0.000
51	10/10/2018 9:30	0.000	0.000	0.000
52	10/10/2018 9:31	0.000	0.000	0.000
53	10/10/2018 9:32	0.000	0.000	0.000

54	10/10/2018 9:33	0.000	0.000	0.000
55	10/10/2018 9:34	0.000	0.000	0.000
56	10/10/2018 9:35	0.000	0.000	0.000
57	10/10/2018 9:36	0.000	0.000	0.000
58	10/10/2018 9:37	0.000	0.000	0.000
59	10/10/2018 9:38	0.000	0.000	0.000
60	10/10/2018 9:39	0.000	0.000	0.000
61	10/10/2018 9:40	0.000	0.000	0.000
62	10/10/2018 9:41	0.000	0.000	0.000
63	10/10/2018 9:42	0.000	0.000	0.000
64	10/10/2018 9:43	0.000	0.000	0.000
65	10/10/2018 9:44	0.000	0.000	0.000
66	10/10/2018 9:45	0.000	0.000	0.000
67	10/10/2018 9:46	0.000	0.000	0.000
68	10/10/2018 9:47	0.000	0.000	0.000
69	10/10/2018 9:48	0.000	0.000	0.000
70	10/10/2018 9:49	0.000	0.000	0.000
71	10/10/2018 9:50	0.000	0.000	0.000
72	10/10/2018 9:51	0.000	0.000	0.000
73	10/10/2018 9:52	0.000	0.000	0.000
74	10/10/2018 9:53	0.000	0.000	0.000
75	10/10/2018 9:54	0.000	0.000	0.000
76	10/10/2018 9:55	0.000	0.000	0.000
77	10/10/2018 9:56	0.000	0.000	0.000
78	10/10/2018 9:57	0.000	0.000	0.000
79	10/10/2018 9:58	0.000	0.000	0.000
80	10/10/2018 9:59	0.000	0.000	0.000
81	10/10/2018 10:00	0.000	0.000	0.000
82	10/10/2018 10:01	0.000	0.000	0.000
83	10/10/2018 10:02	0.000	0.000	0.000
84	10/10/2018 10:03	0.000	0.000	0.000
85	10/10/2018 10:04	0.000	0.000	0.000
86	10/10/2018 10:05	0.000	0.000	0.000
87	10/10/2018 10:06	0.000	0.000	0.000
88	10/10/2018 10:07	0.000	0.000	0.000
89	10/10/2018 10:08	0.000	0.000	0.000
90	10/10/2018 10:09	0.000	0.000	0.000
91	10/10/2018 10:10	0.000	0.000	0.000
92	10/10/2018 10:11	0.000	0.000	0.000
93	10/10/2018 10:12	0.000	0.000	0.000
94	10/10/2018 10:13	0.000	0.000	0.000
95	10/10/2018 10:14	0.000	0.000	0.000
96	10/10/2018 10:15	0.000	0.000	0.000
97	10/10/2018 10:16	0.000	0.000	0.000
98	10/10/2018 10:17	0.000	0.000	0.000
99	10/10/2018 10:18	0.000	0.000	0.000
100	10/10/2018 10:19	0.000	0.000	0.000

101	10/10/2018 10:20	0.000	0.000	0.000
102	10/10/2018 10:21	0.000	0.000	0.000
103	10/10/2018 10:22	0.000	0.000	0.000
104	10/10/2018 10:23	0.000	0.000	0.000
105	10/10/2018 10:24	0.000	0.000	0.000
106	10/10/2018 10:25	0.000	0.000	0.000
107	10/10/2018 10:26	0.000	0.000	0.000
108	10/10/2018 10:27	0.000	0.000	0.000
109	10/10/2018 10:28	0.000	0.000	0.000
110	10/10/2018 10:29	0.000	0.000	0.000
111	10/10/2018 10:30	0.000	0.000	0.000
112	10/10/2018 10:31	0.000	0.000	0.000
113	10/10/2018 10:32	0.000	0.000	0.000
114	10/10/2018 10:33	0.000	0.000	0.000
115	10/10/2018 10:34	0.000	0.000	0.000
116	10/10/2018 10:35	0.000	0.000	0.000
117	10/10/2018 10:36	0.000	0.000	0.000
118	10/10/2018 10:37	0.000	0.000	0.000
119	10/10/2018 10:38	0.000	0.000	0.000
120	10/10/2018 10:39	0.000	0.000	0.000
121	10/10/2018 10:40	0.000	0.000	0.000
122	10/10/2018 10:41	0.000	0.000	0.000
123	10/10/2018 10:42	0.000	0.000	0.000
124	10/10/2018 10:43	0.000	0.000	0.000
125	10/10/2018 10:44	0.000	0.000	0.000
126	10/10/2018 10:45	0.000	0.000	0.000
127	10/10/2018 10:46	0.000	0.000	0.000
128	10/10/2018 10:47	0.000	0.000	0.000
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140	10/10/2018 10:59	0.000	0.000	0.000
141	10/10/2018 11:00	0.000	0.000	0.000
142	10/10/2018 11:01	0.000	0.000	0.000
143	10/10/2018 11:02	0.000	0.000	0.000
144	10/10/2018 11:03	0.000	0.000	0.000
145	10/10/2018 11:04	0.000	0.000	0.000
146	10/10/2018 11:05	0.000	0.000	0.000
147	10/10/2018 11:06	0.000	0.000	0.000



148	10/10/2018 11:07	0.000	0.000	0.000
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159	10/10/2018 11:18	0.000	0.000	0.000
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162	10/10/2018 11:21	0.000	0.000	0.000
163	10/10/2018 11:22	0.000	0.000	0.000
164	10/10/2018 11:23	0.000	0.000	0.000
165	10/10/2018 11:24	0.000	0.000	0.000
166	10/10/2018 11:25	0.000	0.000	0.000
167	10/10/2018 11:26	0.000	0.000	0.000
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172	10/10/2018 11:31	0.000	0.000	0.000
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178	10/10/2018 11:37	0.000	0.000	0.000
179	10/10/2018 11:38	0.000	0.000	0.000
180	10/10/2018 11:39	0.000	0.000	0.000
181	10/10/2018 11:40	0.000	0.000	0.000
182	10/10/2018 11:41	0.000	0.000	0.000
183	10/10/2018 11:42	0.000	0.000	0.000
184	10/10/2018 11:43	0.000	0.000	0.000
185	10/10/2018 11:44	0.000	0.000	0.000
186	10/10/2018 11:45	0.000	0.000	0.000
187	10/10/2018 11:46	0.000	0.000	0.000
188	10/10/2018 11:47	0.000	0.000	0.000
189	10/10/2018 11:48	0.000	0.000	0.000
190	10/10/2018 11:49	0.000	0.000	0.000
191	10/10/2018 11:50	0.000	0.000	0.000
192	10/10/2018 11:51	0.000	0.000	0.000
193	10/10/2018 11:52	0.000	0.000	0.000
194	10/10/2018 11:53	0.000	0.000	0.000

195	10/10/2018 11:54	0.000	0.000	0.000
196	10/10/2018 11:55	0.000	0.000	0.000
197	10/10/2018 11:56	0.000	0.000	0.000
198	10/10/2018 11:57	0.000	0.000	0.000
199	10/10/2018 11:58	0.000	0.000	0.000
200	10/10/2018 11:59	0.000	0.000	0.000
201	10/10/2018 12:00	0.000	0.000	0.000
202	10/10/2018 12:01	0.000	0.000	0.000
203	10/10/2018 12:02	0.000	0.000	0.000
204	10/10/2018 12:03	0.000	0.000	0.000
205	10/10/2018 12:04	0.000	0.000	0.000
206	10/10/2018 12:05	0.000	0.000	0.000
207	10/10/2018 12:06	0.000	0.000	0.000
208	10/10/2018 12:07	0.000	0.000	0.000
209	10/10/2018 12:08	0.000	0.000	0.000
210	10/10/2018 12:09	0.000	0.000	0.000
211	10/10/2018 12:10	0.000	0.000	0.000
212	10/10/2018 12:11	0.000	0.000	0.000
213	10/10/2018 12:12	0.000	0.000	0.000
214	10/10/2018 12:13	0.000	0.000	0.000
215	10/10/2018 12:14	0.000	0.000	0.000
216	10/10/2018 12:15	0.000	0.000	0.000
217	10/10/2018 12:16	0.000	0.000	0.000
218	10/10/2018 12:17	0.000	0.000	0.000
219	10/10/2018 12:18	0.000	0.000	0.000
220	10/10/2018 12:19	0.000	0.000	0.000
221	10/10/2018 12:20	0.000	0.000	0.000
222	10/10/2018 12:21	0.000	0.000	0.000
223	10/10/2018 12:22	0.000	0.000	0.000
224	10/10/2018 12:23	0.000	0.000	0.000
225	10/10/2018 12:24	0.000	0.000	0.000
226	10/10/2018 12:25	0.000	0.000	0.000
227	10/10/2018 12:26	0.000	0.000	0.000
228	10/10/2018 12:27	0.000	0.000	0.000
229	10/10/2018 12:28	0.000	0.000	0.000
230	10/10/2018 12:29	0.000	0.000	0.000
231	10/10/2018 12:30	0.000	0.000	0.000
232	10/10/2018 12:31	0.000	0.000	0.000
233	10/10/2018 12:32	0.000	0.000	0.000
234	10/10/2018 12:33	0.000	0.000	0.000
235	10/10/2018 12:34	0.000	0.000	0.000
236	10/10/2018 12:35	0.000	0.000	0.000
237	10/10/2018 12:36	0.000	0.000	0.000
238	10/10/2018 12:37	0.000	0.000	0.000
239	10/10/2018 12:38	0.000	0.000	0.000
240	10/10/2018 12:39	0.000	0.000	0.000
241	10/10/2018 12:40	0.000	0.000	0.000

242	10/10/2018 12:41	0.000	0.000	0.000
243	10/10/2018 12:42	0.000	0.000	0.000
244	10/10/2018 12:43	0.000	0.000	0.000
245	10/10/2018 12:44	0.000	0.000	0.000
246	10/10/2018 12:45	0.000	0.000	0.000
247	10/10/2018 12:46	0.000	0.000	0.000
248	10/10/2018 12:47	0.000	0.000	0.000
249	10/10/2018 12:48	0.000	0.000	0.000
250	10/10/2018 12:49	0.000	0.000	0.000
251	10/10/2018 12:50	0.000	0.000	0.000
252	10/10/2018 12:51	0.000	0.000	0.000
253	10/10/2018 12:52	0.000	0.000	0.000
254	10/10/2018 12:53	0.000	0.000	0.000
255	10/10/2018 12:54	0.000	0.000	0.000
256	10/10/2018 12:55	0.000	0.000	0.000
257	10/10/2018 12:56	0.000	0.000	0.000
258	10/10/2018 12:57	0.000	0.000	0.000
259	10/10/2018 12:58	0.000	0.000	0.000
260	10/10/2018 12:59	0.000	0.000	0.000
261	10/10/2018 13:00	0.000	0.000	0.000
262	10/10/2018 13:01	0.000	0.000	0.000
263	10/10/2018 13:02	0.000	0.000	0.000
264	10/10/2018 13:03	0.000	0.000	0.000
265	10/10/2018 13:04	0.000	0.000	0.000
266	10/10/2018 13:05	0.000	0.000	0.000
267	10/10/2018 13:06	0.000	0.000	0.000
268	10/10/2018 13:07	0.000	0.000	0.000
269	10/10/2018 13:08	0.000	0.000	0.000
270	10/10/2018 13:09	0.000	0.000	0.000
271	10/10/2018 13:10	0.000	0.000	0.000
272	10/10/2018 13:11	0.000	0.000	0.000
273	10/10/2018 13:12	0.000	0.000	0.000
274	10/10/2018 13:13	0.000	0.000	0.000
275	10/10/2018 13:14	0.000	0.000	0.000
276	10/10/2018 13:15	0.000	0.000	0.000
277	10/10/2018 13:16	0.000	0.000	0.000
278	10/10/2018 13:17	0.000	0.000	0.000
279	10/10/2018 13:18	0.000	0.000	0.000
280	10/10/2018 13:19	0.000	0.000	0.000
281	10/10/2018 13:20	0.000	0.000	0.000
282	10/10/2018 13:21	0.000	0.000	0.000
283	10/10/2018 13:22	0.000	0.000	0.000
284	10/10/2018 13:23	0.000	0.000	0.000
285	10/10/2018 13:24	0.000	0.000	0.000
286	10/10/2018 13:25	0.000	0.000	0.000
287	10/10/2018 13:26	0.000	0.000	0.000
288	10/10/2018 13:27	0.000	0.000	0.000

289	10/10/2018 13:28	0.000	0.000	0.000
290	10/10/2018 13:29	0.000	0.000	0.000
291	10/10/2018 13:30	0.000	0.000	0.000
292	10/10/2018 13:31	0.000	0.000	0.000
293	10/10/2018 13:32	0.000	0.000	0.000
294	10/10/2018 13:33	0.000	0.000	0.000
295	10/10/2018 13:34	0.000	0.000	0.000
296	10/10/2018 13:35	0.000	0.000	0.000
297	10/10/2018 13:36	0.000	0.000	0.000
298	10/10/2018 13:37	0.000	0.000	0.000
299	10/10/2018 13:38	0.000	0.000	0.000
300	10/10/2018 13:39	0.000	0.000	0.000
301	10/10/2018 13:40	0.000	0.000	0.000
302	10/10/2018 13:41	0.000	0.000	0.000
303	10/10/2018 13:42	0.000	0.000	0.000
304	10/10/2018 13:43	0.000	0.000	0.000
305	10/10/2018 13:44	0.000	0.000	0.000
306	10/10/2018 13:45	0.000	0.000	0.000
307	10/10/2018 13:46	0.000	0.000	0.000
308	10/10/2018 13:47	0.000	0.000	0.000
309	10/10/2018 13:48	0.000	0.000	0.000
310	10/10/2018 13:49	0.000	0.000	0.000
311	10/10/2018 13:50	0.000	0.000	0.000
312	10/10/2018 13:51	0.000	0.000	0.000
313	10/10/2018 13:52	0.000	0.000	0.000
314	10/10/2018 13:53	0.000	0.000	0.000
315	10/10/2018 13:54	0.000	0.000	0.000
316	10/10/2018 13:55	0.000	0.000	0.000
317	10/10/2018 13:56	0.000	0.000	0.000
318	10/10/2018 13:57	0.000	0.000	0.000
319	10/10/2018 13:58	0.000	0.000	0.000
320	10/10/2018 13:59	0.000	0.000	0.000
321	10/10/2018 14:00	0.000	0.000	0.000
322	10/10/2018 14:01	0.000	0.000	0.000
323	10/10/2018 14:02	0.000	0.000	0.000
324	10/10/2018 14:03	0.000	0.000	0.000
325	10/10/2018 14:04	0.000	0.000	0.000
326	10/10/2018 14:05	0.000	0.000	0.000
327	10/10/2018 14:06	0.000	0.000	0.000
328	10/10/2018 14:07	0.000	0.000	0.000
329	10/10/2018 14:08	0.000	0.000	0.000
330	10/10/2018 14:09	0.000	0.000	0.000
331	10/10/2018 14:10	0.000	0.000	0.000
332	10/10/2018 14:11	0.000	0.000	0.000
333	10/10/2018 14:12	0.000	0.000	0.000
334	10/10/2018 14:13	0.000	0.000	0.000
335	10/10/2018 14:14	0.000	0.000	0.000

336	10/10/2018 14:15	0.000	0.000	0.000
337	10/10/2018 14:16	0.000	0.000	0.000
338	10/10/2018 14:17	0.000	0.000	0.000
339	10/10/2018 14:18	0.000	0.000	0.000
340	10/10/2018 14:19	0.000	0.000	0.000
341	10/10/2018 14:20	0.000	0.000	0.000
342	10/10/2018 14:21	0.000	0.000	0.000
343	10/10/2018 14:22	0.000	0.000	0.000
344	10/10/2018 14:23	0.000	0.000	0.000
345	10/10/2018 14:24	0.000	0.000	0.000
346	10/10/2018 14:25	0.000	0.000	0.000
347	10/10/2018 14:26	0.000	0.000	0.000
348	10/10/2018 14:27	0.000	0.000	0.000
349	10/10/2018 14:28	0.000	0.000	0.000
350	10/10/2018 14:29	0.000	0.000	0.000
351	10/10/2018 14:30	0.000	0.000	0.000
352	10/10/2018 14:31	0.000	0.000	0.000
353	10/10/2018 14:32	0.000	0.000	0.000
354	10/10/2018 14:33	0.000	0.000	0.000
355	10/10/2018 14:34	0.000	0.000	0.000
356	10/10/2018 14:35	0.000	0.000	0.000
357	10/10/2018 14:36	0.000	0.000	0.000
358	10/10/2018 14:37	0.000	0.000	0.000
359	10/10/2018 14:38	0.000	0.000	0.000
360	10/10/2018 14:39	0.000	0.000	0.000
361	10/10/2018 14:40	0.000	0.000	0.000
362	10/10/2018 14:41	0.000	0.000	0.000
363	10/10/2018 14:42	0.000	0.000	0.000
364	10/10/2018 14:43	0.000	0.000	0.000
365	10/10/2018 14:44	0.000	0.000	0.000
366	10/10/2018 14:45	0.000	0.000	0.000
367	10/10/2018 14:46	0.000	0.000	0.000
368	10/10/2018 14:47	0.000	0.000	0.000
369	10/10/2018 14:48	0.000	0.000	0.000
370	10/10/2018 14:49	0.000	0.000	0.000
371	10/10/2018 14:50	0.000	0.000	0.000
372	10/10/2018 14:51	0.000	0.000	0.000
373	10/10/2018 14:52	0.000	0.000	0.000
374	10/10/2018 14:53	0.000	0.000	0.000
375	10/10/2018 14:54	0.000	0.000	0.000
376	10/10/2018 14:55	0.000	0.000	0.000
377	10/10/2018 14:56	0.000	0.000	0.000
378	10/10/2018 14:57	0.000	0.000	0.000
379	10/10/2018 14:58	0.000	0.000	0.000
380	10/10/2018 14:59	0.000	0.000	0.000
381	10/10/2018 15:00	0.000	0.000	0.000
382	10/10/2018 15:01	0.000	0.000	0.000

383	10/10/2018 15:02	0.000	0.000	0.000
384	10/10/2018 15:03	0.000	0.000	0.000
385	10/10/2018 15:04	0.000	0.000	0.000
386	10/10/2018 15:05	0.000	0.000	0.000
387	10/10/2018 15:06	0.000	0.000	0.000
388	10/10/2018 15:07	0.000	0.000	0.000
389	10/10/2018 15:08	0.000	0.000	0.000
390	10/10/2018 15:09	0.000	0.000	0.000
391	10/10/2018 15:10	0.000	0.000	0.000
392	10/10/2018 15:11	0.000	0.000	0.000
393	10/10/2018 15:12	0.000	0.000	0.000
394	10/10/2018 15:13	0.000	0.000	0.000
395	10/10/2018 15:14	0.000	0.000	0.000
396	10/10/2018 15:15	0.000	0.000	0.000
397	10/10/2018 15:16	0.000	0.000	0.000
398	10/10/2018 15:17	0.000	0.000	0.000
399	10/10/2018 15:18	0.000	0.000	0.000
400	10/10/2018 15:19	0.000	0.000	0.000
401	10/10/2018 15:20	0.000	0.000	0.000
402	10/10/2018 15:21	0.000	0.000	0.000
403	10/10/2018 15:22	0.000	0.000	0.000
404	10/10/2018 15:23	0.000	0.000	0.000
405	10/10/2018 15:24	0.000	0.000	0.000
406	10/10/2018 15:25	0.000	0.000	0.000
407	10/10/2018 15:26	0.000	0.000	0.000
408	10/10/2018 15:27	0.000	0.000	0.000
409	10/10/2018 15:28	0.000	0.000	0.000
410	10/10/2018 15:29	0.000	0.000	0.000
411	10/10/2018 15:30	0.000	0.000	0.000
412	10/10/2018 15:31	0.000	0.000	0.000
413	10/10/2018 15:32	0.000	0.000	0.000
414	10/10/2018 15:33	0.000	0.000	0.000
415	10/10/2018 15:34	0.000	0.000	0.000
416	10/10/2018 15:35	0.000	0.000	0.000
417	10/10/2018 15:36	0.000	0.000	0.000
418	10/10/2018 15:37	0.000	0.000	0.000
419	10/10/2018 15:38	0.000	0.000	0.000
420	10/10/2018 15:39	0.000	0.000	0.000
421	10/10/2018 15:40	0.000	0.000	0.000
422	10/10/2018 15:41	0.000	0.000	0.000
423	10/10/2018 15:42	0.000	0.000	0.000
424	10/10/2018 15:43	0.000	0.000	0.000
425	10/10/2018 15:44	0.000	0.000	0.000
426	10/10/2018 15:45	0.000	0.000	0.000
427	10/10/2018 15:46	0.000	0.000	0.000
428	10/10/2018 15:47	0.000	0.000	0.000
429	10/10/2018 15:48	0.000	0.000	0.000

430	10/10/2018 15:49	0.000	0.000	0.000
431	10/10/2018 15:50	0.000	0.000	0.000
432	10/10/2018 15:51	0.000	0.000	0.000
433	10/10/2018 15:52	0.000	0.000	0.000
434	10/10/2018 15:53	0.000	0.000	0.000
435	10/10/2018 15:54	0.000	0.000	0.000
436	10/10/2018 15:55	0.000	0.000	0.000
437	10/10/2018 15:56	0.000	0.000	0.000
438	10/10/2018 15:57	0.000	0.000	0.000
439	10/10/2018 15:58	0.000	0.000	0.000
440	10/10/2018 15:59	0.000	0.000	0.000
441	10/10/2018 16:00	0.000	0.000	0.000
442	10/10/2018 16:01	0.000	0.000	0.000
443	10/10/2018 16:02	0.000	0.000	0.000
444	10/10/2018 16:03	0.000	0.000	0.000
445	10/10/2018 16:04	0.000	0.000	0.000
446	10/10/2018 16:05	0.000	0.000	0.000
447	10/10/2018 16:06	0.000	0.000	0.000
448	10/10/2018 16:07	0.000	0.000	0.000
449	10/10/2018 16:08	0.000	0.000	0.000
450	10/10/2018 16:09	0.000	0.000	0.000
451	10/10/2018 16:10	0.000	0.000	0.000
452	10/10/2018 16:11	0.000	0.000	0.000
453	10/10/2018 16:12	0.000	0.000	0.000
454	10/10/2018 16:13	0.000	0.000	0.000
455	10/10/2018 16:14	0.000	0.000	0.000

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18/10/11 07:44

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-910739  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Pause in Menu Mode  
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Site ID         12345678  
User ID         12345678  
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Begin           2018/10/11 07:45:14  
End             2018/10/11 16:36:23  
Sample Period(s) 60  
Number of Records 530  
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Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/11 07:41  
Peak           1.112  
Min            0.000  
Average        0.003  
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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/11/2018 7:45	0.000	0.000	0.000
2	10/11/2018 7:46	0.187	0.411	0.000
3	10/11/2018 7:47	0.084	0.526	0.000
4	10/11/2018 7:48	0.609	1.112	0.956
5	10/11/2018 7:49	0.030	0.927	0.000
6	10/11/2018 7:50	0.000	0.000	0.000



7	10/11/2018 7:51	0.000	0.000	0.000
8	10/11/2018 7:52	0.000	0.000	0.000
9	10/11/2018 7:53	0.000	0.000	0.000
10	10/11/2018 7:54	0.000	0.000	0.000
11	10/11/2018 7:55	0.000	0.000	0.000
12	10/11/2018 7:56	0.000	0.000	0.000
13	10/11/2018 7:57	0.000	0.000	0.000
14	10/11/2018 7:58	0.000	0.000	0.000
15	10/11/2018 7:59	0.000	0.000	0.000
16	10/11/2018 8:00	0.000	0.000	0.000
17	10/11/2018 8:01	0.000	0.000	0.000
18	10/11/2018 8:02	0.000	0.000	0.000
19	10/11/2018 8:03	0.000	0.000	0.000
20	10/11/2018 8:04	0.000	0.000	0.000
21	10/11/2018 8:05	0.000	0.000	0.000
22	10/11/2018 8:06	0.000	0.000	0.000
23	10/11/2018 8:07	0.000	0.000	0.000
24	10/11/2018 8:08	0.000	0.000	0.000
25	10/11/2018 8:09	0.000	0.000	0.000
26	10/11/2018 8:10	0.000	0.000	0.000
27	10/11/2018 8:11	0.000	0.000	0.000
28	10/11/2018 8:12	0.000	0.000	0.000
29	10/11/2018 8:13	0.000	0.000	0.000
30	10/11/2018 8:14	0.000	0.000	0.000
31	10/11/2018 8:15	0.000	0.000	0.000
32	10/11/2018 8:16	0.000	0.000	0.000
33	10/11/2018 8:17	0.000	0.000	0.000
34	10/11/2018 8:18	0.000	0.000	0.000
35	10/11/2018 8:19	0.000	0.000	0.000
36	10/11/2018 8:20	0.000	0.000	0.000
37	10/11/2018 8:21	0.000	0.000	0.000
38	10/11/2018 8:22	0.000	0.000	0.000
39	10/11/2018 8:23	0.000	0.000	0.000
40	10/11/2018 8:24	0.000	0.000	0.000
41	10/11/2018 8:25	0.000	0.000	0.000
42	10/11/2018 8:26	0.000	0.000	0.000
43	10/11/2018 8:27	0.000	0.000	0.000
44	10/11/2018 8:28	0.000	0.000	0.000
45	10/11/2018 8:29	0.000	0.000	0.000
46	10/11/2018 8:30	0.000	0.000	0.000
47	10/11/2018 8:31	0.000	0.000	0.000
48	10/11/2018 8:32	0.000	0.000	0.000
49	10/11/2018 8:33	0.000	0.000	0.000
50	10/11/2018 8:34	0.000	0.000	0.000
51	10/11/2018 8:35	0.000	0.000	0.000
52	10/11/2018 8:36	0.000	0.000	0.000
53	10/11/2018 8:37	0.000	0.000	0.000

54	10/11/2018 8:38	0.000	0.000	0.000
55	10/11/2018 8:39	0.000	0.000	0.000
56	10/11/2018 8:40	0.000	0.000	0.000
57	10/11/2018 8:41	0.000	0.000	0.000
58	10/11/2018 8:42	0.000	0.000	0.000
59	10/11/2018 8:43	0.000	0.000	0.000
60	10/11/2018 8:44	0.000	0.000	0.000
61	10/11/2018 8:45	0.000	0.000	0.000
62	10/11/2018 8:46	0.000	0.000	0.000
63	10/11/2018 8:47	0.000	0.000	0.000
64	10/11/2018 8:48	0.000	0.000	0.000
65	10/11/2018 8:49	0.000	0.000	0.000
66	10/11/2018 8:50	0.000	0.000	0.000
67	10/11/2018 8:51	0.000	0.000	0.000
68	10/11/2018 8:52	0.000	0.000	0.000
69	10/11/2018 8:53	0.000	0.000	0.000
70	10/11/2018 8:54	0.000	0.000	0.000
71	10/11/2018 8:55	0.000	0.000	0.000
72	10/11/2018 8:56	0.000	0.000	0.000
73	10/11/2018 8:57	0.000	0.000	0.000
74	10/11/2018 8:58	0.000	0.000	0.000
75	10/11/2018 8:59	0.000	0.000	0.000
76	10/11/2018 9:00	0.000	0.000	0.000
77	10/11/2018 9:01	0.000	0.000	0.000
78	10/11/2018 9:02	0.000	0.000	0.000
79	10/11/2018 9:03	0.000	0.000	0.000
80	10/11/2018 9:04	0.000	0.000	0.000
81	10/11/2018 9:05	0.000	0.000	0.000
82	10/11/2018 9:06	0.000	0.000	0.000
83	10/11/2018 9:07	0.000	0.000	0.000
84	10/11/2018 9:08	0.000	0.000	0.000
85	10/11/2018 9:09	0.000	0.000	0.000
86	10/11/2018 9:11	0.079	0.344	0.118
87	10/11/2018 9:12	0.222	0.593	0.000
88	10/11/2018 9:13	0.108	0.356	0.000
89	10/11/2018 9:14	0.003	0.029	0.000
90	10/11/2018 9:15	0.000	0.000	0.000
91	10/11/2018 9:16	0.000	0.000	0.000
92	10/11/2018 9:17	0.108	0.493	0.493
93	10/11/2018 9:18	0.038	0.471	0.000
94	10/11/2018 9:19	0.000	0.000	0.000
95	10/11/2018 9:20	0.000	0.000	0.000
96	10/11/2018 9:21	0.000	0.000	0.000
97	10/11/2018 9:22	0.000	0.000	0.000
98	10/11/2018 9:23	0.000	0.000	0.000
99	10/11/2018 9:24	0.000	0.000	0.000
100	10/11/2018 9:25	0.000	0.000	0.000

101	10/11/2018 9:26	0.000	0.000	0.000
102	10/11/2018 9:27	0.000	0.000	0.000
103	10/11/2018 9:28	0.000	0.000	0.000
104	10/11/2018 9:29	0.000	0.000	0.000
105	10/11/2018 9:30	0.000	0.000	0.000
106	10/11/2018 9:31	0.000	0.000	0.000
107	10/11/2018 9:32	0.000	0.000	0.000
108	10/11/2018 9:33	0.000	0.000	0.000
109	10/11/2018 9:34	0.000	0.000	0.000
110	10/11/2018 9:35	0.000	0.000	0.000
111	10/11/2018 9:36	0.000	0.000	0.000
112	10/11/2018 9:37	0.000	0.000	0.000
113	10/11/2018 9:38	0.000	0.000	0.000
114	10/11/2018 9:39	0.000	0.000	0.000
115	10/11/2018 9:40	0.000	0.000	0.000
116	10/11/2018 9:41	0.000	0.000	0.000
117	10/11/2018 9:42	0.000	0.000	0.000
118	10/11/2018 9:43	0.000	0.000	0.000
119	10/11/2018 9:44	0.000	0.000	0.000
120	10/11/2018 9:45	0.000	0.000	0.000
121	10/11/2018 9:46	0.000	0.000	0.000
122	10/11/2018 9:47	0.000	0.000	0.000
123	10/11/2018 9:48	0.000	0.000	0.000
124	10/11/2018 9:49	0.000	0.000	0.000
125	10/11/2018 9:50	0.000	0.000	0.000
126	10/11/2018 9:51	0.000	0.000	0.000
127	10/11/2018 9:52	0.000	0.000	0.000
128	10/11/2018 9:53	0.000	0.000	0.000
129	10/11/2018 9:54	0.000	0.000	0.000
130	10/11/2018 9:55	0.000	0.000	0.000
131	10/11/2018 9:56	0.000	0.000	0.000
132	10/11/2018 9:57	0.000	0.000	0.000
133	10/11/2018 9:58	0.000	0.000	0.000
134	10/11/2018 9:59	0.000	0.000	0.000
135	10/11/2018 10:00	0.000	0.000	0.000
136	10/11/2018 10:01	0.000	0.000	0.000
137	10/11/2018 10:02	0.000	0.000	0.000
138	10/11/2018 10:03	0.000	0.000	0.000
139	10/11/2018 10:04	0.000	0.000	0.000
140	10/11/2018 10:05	0.000	0.000	0.000
141	10/11/2018 10:06	0.000	0.000	0.000
142	10/11/2018 10:07	0.000	0.000	0.000
143	10/11/2018 10:08	0.000	0.000	0.000
144	10/11/2018 10:09	0.000	0.000	0.000
145	10/11/2018 10:10	0.000	0.000	0.000
146	10/11/2018 10:11	0.000	0.000	0.000
147	10/11/2018 10:12	0.000	0.000	0.000

148	10/11/2018 10:13	0.000	0.000	0.000
149	10/11/2018 10:14	0.000	0.000	0.000
150	10/11/2018 10:15	0.000	0.000	0.000
151	10/11/2018 10:16	0.000	0.000	0.000
152	10/11/2018 10:17	0.000	0.000	0.000
153	10/11/2018 10:18	0.000	0.000	0.000
154	10/11/2018 10:19	0.000	0.000	0.000
155	10/11/2018 10:20	0.000	0.000	0.000
156	10/11/2018 10:21	0.000	0.000	0.000
157	10/11/2018 10:22	0.000	0.000	0.000
158	10/11/2018 10:23	0.000	0.000	0.000
159	10/11/2018 10:24	0.000	0.000	0.000
160	10/11/2018 10:25	0.000	0.000	0.000
161	10/11/2018 10:26	0.000	0.000	0.000
162	10/11/2018 10:27	0.000	0.000	0.000
163	10/11/2018 10:28	0.000	0.000	0.000
164	10/11/2018 10:29	0.000	0.000	0.000
165	10/11/2018 10:30	0.000	0.000	0.000
166	10/11/2018 10:31	0.000	0.000	0.000
167	10/11/2018 10:32	0.000	0.000	0.000
168	10/11/2018 10:33	0.000	0.000	0.000
169	10/11/2018 10:34	0.000	0.000	0.000
170	10/11/2018 10:35	0.000	0.000	0.000
171	10/11/2018 10:36	0.000	0.000	0.000
172	10/11/2018 10:37	0.000	0.000	0.000
173	10/11/2018 10:38	0.000	0.000	0.000
174	10/11/2018 10:39	0.000	0.000	0.000
175	10/11/2018 10:40	0.000	0.000	0.000
176	10/11/2018 10:41	0.000	0.000	0.000
177	10/11/2018 10:42	0.000	0.000	0.000
178	10/11/2018 10:43	0.000	0.000	0.000
179	10/11/2018 10:44	0.000	0.000	0.000
180	10/11/2018 10:45	0.000	0.000	0.000
181	10/11/2018 10:46	0.000	0.000	0.000
182	10/11/2018 10:47	0.000	0.000	0.000
183	10/11/2018 10:48	0.000	0.000	0.000
184	10/11/2018 10:49	0.000	0.000	0.000
185	10/11/2018 10:50	0.000	0.000	0.000
186	10/11/2018 10:51	0.000	0.000	0.000
187	10/11/2018 10:52	0.000	0.000	0.000
188	10/11/2018 10:53	0.000	0.000	0.000
189	10/11/2018 10:54	0.000	0.000	0.000
190	10/11/2018 10:55	0.000	0.000	0.000
191	10/11/2018 10:56	0.000	0.000	0.000
192	10/11/2018 10:57	0.000	0.000	0.000
193	10/11/2018 10:58	0.000	0.000	0.000
194	10/11/2018 10:59	0.000	0.000	0.000

195	10/11/2018 11:00	0.000	0.000	0.000
196	10/11/2018 11:01	0.000	0.000	0.000
197	10/11/2018 11:02	0.000	0.000	0.000
198	10/11/2018 11:03	0.000	0.000	0.000
199	10/11/2018 11:04	0.000	0.000	0.000
200	10/11/2018 11:05	0.000	0.000	0.000
201	10/11/2018 11:06	0.000	0.000	0.000
202	10/11/2018 11:07	0.000	0.000	0.000
203	10/11/2018 11:08	0.000	0.000	0.000
204	10/11/2018 11:09	0.000	0.000	0.000
205	10/11/2018 11:10	0.000	0.000	0.000
206	10/11/2018 11:11	0.000	0.000	0.000
207	10/11/2018 11:12	0.000	0.000	0.000
208	10/11/2018 11:13	0.000	0.000	0.000
209	10/11/2018 11:14	0.000	0.000	0.000
210	10/11/2018 11:15	0.000	0.000	0.000
211	10/11/2018 11:16	0.000	0.000	0.000
212	10/11/2018 11:17	0.000	0.000	0.000
213	10/11/2018 11:18	0.000	0.000	0.000
214	10/11/2018 11:19	0.000	0.000	0.000
215	10/11/2018 11:20	0.000	0.000	0.000
216	10/11/2018 11:21	0.000	0.000	0.000
217	10/11/2018 11:22	0.000	0.000	0.000
218	10/11/2018 11:23	0.000	0.000	0.000
219	10/11/2018 11:24	0.000	0.000	0.000
220	10/11/2018 11:25	0.000	0.000	0.000
221	10/11/2018 11:26	0.000	0.000	0.000
222	10/11/2018 11:27	0.000	0.000	0.000
223	10/11/2018 11:28	0.000	0.000	0.000
224	10/11/2018 11:29	0.000	0.000	0.000
225	10/11/2018 11:30	0.000	0.000	0.000
226	10/11/2018 11:31	0.000	0.000	0.000
227	10/11/2018 11:32	0.000	0.000	0.000
228	10/11/2018 11:33	0.000	0.000	0.000
229	10/11/2018 11:34	0.000	0.000	0.000
230	10/11/2018 11:35	0.000	0.000	0.000
231	10/11/2018 11:36	0.000	0.000	0.000
232	10/11/2018 11:37	0.000	0.000	0.000
233	10/11/2018 11:38	0.000	0.000	0.000
234	10/11/2018 11:39	0.000	0.000	0.000
235	10/11/2018 11:40	0.000	0.000	0.000
236	10/11/2018 11:41	0.000	0.000	0.000
237	10/11/2018 11:42	0.000	0.000	0.000
238	10/11/2018 11:43	0.000	0.000	0.000
239	10/11/2018 11:44	0.000	0.000	0.000
240	10/11/2018 11:45	0.000	0.000	0.000
241	10/11/2018 11:46	0.000	0.000	0.000

242	10/11/2018 11:48	0.000	0.000	0.000
243	10/11/2018 11:49	0.000	0.000	0.000
244	10/11/2018 11:50	0.002	0.018	0.000
245	10/11/2018 11:51	0.000	0.000	0.000
246	10/11/2018 11:52	0.000	0.000	0.000
247	10/11/2018 11:53	0.025	0.099	0.042
248	10/11/2018 11:54	0.005	0.048	0.000
249	10/11/2018 11:55	0.000	0.013	0.013
250	10/11/2018 11:56	0.006	0.024	0.001
251	10/11/2018 11:57	0.042	0.122	0.000
252	10/11/2018 11:58	0.000	0.000	0.000
253	10/11/2018 11:59	0.012	0.065	0.000
254	10/11/2018 12:00	0.000	0.000	0.000
255	10/11/2018 12:01	0.000	0.000	0.000
256	10/11/2018 12:02	0.000	0.000	0.000
257	10/11/2018 12:03	0.000	0.000	0.000
258	10/11/2018 12:04	0.000	0.000	0.000
259	10/11/2018 12:05	0.000	0.000	0.000
260	10/11/2018 12:06	0.000	0.000	0.000
261	10/11/2018 12:07	0.000	0.000	0.000
262	10/11/2018 12:08	0.000	0.000	0.000
263	10/11/2018 12:09	0.000	0.000	0.000
264	10/11/2018 12:10	0.000	0.000	0.000
265	10/11/2018 12:11	0.000	0.000	0.000
266	10/11/2018 12:12	0.000	0.000	0.000
267	10/11/2018 12:13	0.000	0.000	0.000
268	10/11/2018 12:14	0.000	0.000	0.000
269	10/11/2018 12:15	0.000	0.000	0.000
270	10/11/2018 12:16	0.000	0.000	0.000
271	10/11/2018 12:17	0.000	0.000	0.000
272	10/11/2018 12:18	0.000	0.000	0.000
273	10/11/2018 12:19	0.000	0.000	0.000
274	10/11/2018 12:20	0.000	0.000	0.000
275	10/11/2018 12:21	0.000	0.000	0.000
276	10/11/2018 12:22	0.000	0.000	0.000
277	10/11/2018 12:23	0.000	0.000	0.000
278	10/11/2018 12:24	0.000	0.000	0.000
279	10/11/2018 12:25	0.000	0.000	0.000
280	10/11/2018 12:26	0.000	0.000	0.000
281	10/11/2018 12:27	0.000	0.000	0.000
282	10/11/2018 12:28	0.000	0.000	0.000
283	10/11/2018 12:29	0.000	0.000	0.000
284	10/11/2018 12:30	0.000	0.000	0.000
285	10/11/2018 12:31	0.000	0.000	0.000
286	10/11/2018 12:32	0.000	0.000	0.000
287	10/11/2018 12:33	0.000	0.000	0.000
288	10/11/2018 12:34	0.000	0.000	0.000

289	10/11/2018 12:35	0.000	0.000	0.000
290	10/11/2018 12:36	0.000	0.000	0.000
291	10/11/2018 12:37	0.000	0.000	0.000
292	10/11/2018 12:38	0.000	0.000	0.000
293	10/11/2018 12:39	0.000	0.000	0.000
294	10/11/2018 12:40	0.000	0.000	0.000
295	10/11/2018 12:41	0.000	0.000	0.000
296	10/11/2018 12:42	0.000	0.000	0.000
297	10/11/2018 12:43	0.000	0.000	0.000
298	10/11/2018 12:44	0.000	0.000	0.000
299	10/11/2018 12:45	0.000	0.000	0.000
300	10/11/2018 12:46	0.000	0.000	0.000
301	10/11/2018 12:47	0.000	0.000	0.000
302	10/11/2018 12:48	0.000	0.000	0.000
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307	10/11/2018 12:53	0.000	0.000	0.000
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313	10/11/2018 12:59	0.000	0.000	0.000
314	10/11/2018 13:00	0.000	0.000	0.000
315	10/11/2018 13:01	0.000	0.000	0.000
316	10/11/2018 13:02	0.000	0.000	0.000
317	10/11/2018 13:03	0.000	0.000	0.000
318	10/11/2018 13:04	0.000	0.000	0.000
319	10/11/2018 13:05	0.000	0.000	0.000
320	10/11/2018 13:06	0.000	0.000	0.000
321	10/11/2018 13:07	0.000	0.000	0.000
322	10/11/2018 13:08	0.000	0.000	0.000
323	10/11/2018 13:09	0.000	0.000	0.000
324	10/11/2018 13:10	0.000	0.000	0.000
325	10/11/2018 13:11	0.000	0.000	0.000
326	10/11/2018 13:12	0.000	0.000	0.000
327	10/11/2018 13:13	0.000	0.000	0.000
328	10/11/2018 13:14	0.000	0.000	0.000
329	10/11/2018 13:15	0.000	0.000	0.000
330	10/11/2018 13:16	0.000	0.000	0.000
331	10/11/2018 13:17	0.000	0.000	0.000
332	10/11/2018 13:18	0.000	0.000	0.000
333	10/11/2018 13:19	0.000	0.000	0.000
334	10/11/2018 13:20	0.000	0.000	0.000
335	10/11/2018 13:21	0.000	0.000	0.000

336	10/11/2018 13:22	0.000	0.000	0.000
337	10/11/2018 13:23	0.000	0.000	0.000
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339	10/11/2018 13:25	0.000	0.000	0.000
340	10/11/2018 13:26	0.000	0.000	0.000
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351	10/11/2018 13:37	0.000	0.000	0.000
352	10/11/2018 13:38	0.000	0.000	0.000
353	10/11/2018 13:39	0.000	0.000	0.000
354	10/11/2018 13:40	0.000	0.000	0.000
355	10/11/2018 13:41	0.000	0.000	0.000
356	10/11/2018 13:42	0.000	0.000	0.000
357	10/11/2018 13:43	0.000	0.000	0.000
358	10/11/2018 13:44	0.000	0.000	0.000
359	10/11/2018 13:45	0.000	0.000	0.000
360	10/11/2018 13:46	0.000	0.000	0.000
361	10/11/2018 13:47	0.000	0.000	0.000
362	10/11/2018 13:48	0.000	0.000	0.000
363	10/11/2018 13:49	0.000	0.000	0.000
364	10/11/2018 13:50	0.000	0.000	0.000
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366	10/11/2018 13:52	0.000	0.000	0.000
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374	10/11/2018 14:00	0.000	0.000	0.000
375	10/11/2018 14:01	0.000	0.000	0.000
376	10/11/2018 14:02	0.000	0.000	0.000
377	10/11/2018 14:03	0.000	0.000	0.000
378	10/11/2018 14:04	0.000	0.000	0.000
379	10/11/2018 14:05	0.000	0.000	0.000
380	10/11/2018 14:06	0.000	0.000	0.000
381	10/11/2018 14:07	0.000	0.000	0.000
382	10/11/2018 14:08	0.000	0.000	0.000



383	10/11/2018 14:09	0.000	0.000	0.000
384	10/11/2018 14:10	0.000	0.000	0.000
385	10/11/2018 14:11	0.000	0.000	0.000
386	10/11/2018 14:12	0.000	0.000	0.000
387	10/11/2018 14:13	0.000	0.000	0.000
388	10/11/2018 14:14	0.000	0.000	0.000
389	10/11/2018 14:15	0.000	0.000	0.000
390	10/11/2018 14:16	0.000	0.000	0.000
391	10/11/2018 14:17	0.000	0.000	0.000
392	10/11/2018 14:18	0.000	0.000	0.000
393	10/11/2018 14:19	0.000	0.000	0.000
394	10/11/2018 14:20	0.000	0.000	0.000
395	10/11/2018 14:21	0.000	0.000	0.000
396	10/11/2018 14:22	0.000	0.000	0.000
397	10/11/2018 14:23	0.000	0.000	0.000
398	10/11/2018 14:24	0.000	0.000	0.000
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400	10/11/2018 14:26	0.000	0.000	0.000
401	10/11/2018 14:27	0.000	0.000	0.000
402	10/11/2018 14:28	0.000	0.000	0.000
403	10/11/2018 14:29	0.000	0.000	0.000
404	10/11/2018 14:30	0.000	0.000	0.000
405	10/11/2018 14:31	0.000	0.000	0.000
406	10/11/2018 14:32	0.000	0.000	0.000
407	10/11/2018 14:33	0.000	0.000	0.000
408	10/11/2018 14:34	0.000	0.000	0.000
409	10/11/2018 14:35	0.000	0.000	0.000
410	10/11/2018 14:36	0.000	0.000	0.000
411	10/11/2018 14:37	0.000	0.000	0.000
412	10/11/2018 14:38	0.000	0.000	0.000
413	10/11/2018 14:39	0.000	0.000	0.000
414	10/11/2018 14:40	0.000	0.000	0.000
415	10/11/2018 14:41	0.000	0.000	0.000
416	10/11/2018 14:42	0.000	0.000	0.000
417	10/11/2018 14:43	0.000	0.000	0.000
418	10/11/2018 14:44	0.000	0.000	0.000
419	10/11/2018 14:45	0.000	0.000	0.000
420	10/11/2018 14:46	0.000	0.000	0.000
421	10/11/2018 14:47	0.000	0.000	0.000
422	10/11/2018 14:48	0.000	0.000	0.000
423	10/11/2018 14:49	0.000	0.000	0.000
424	10/11/2018 14:50	0.000	0.000	0.000
425	10/11/2018 14:51	0.000	0.000	0.000
426	10/11/2018 14:52	0.000	0.000	0.000
427	10/11/2018 14:53	0.000	0.000	0.000
428	10/11/2018 14:54	0.000	0.000	0.000
429	10/11/2018 14:55	0.000	0.000	0.000

430	10/11/2018 14:56	0.000	0.000	0.000
431	10/11/2018 14:57	0.000	0.000	0.000
432	10/11/2018 14:58	0.000	0.000	0.000
433	10/11/2018 14:59	0.000	0.000	0.000
434	10/11/2018 15:00	0.000	0.000	0.000
435	10/11/2018 15:01	0.000	0.000	0.000
436	10/11/2018 15:02	0.000	0.000	0.000
437	10/11/2018 15:03	0.000	0.000	0.000
438	10/11/2018 15:04	0.000	0.000	0.000
439	10/11/2018 15:05	0.000	0.000	0.000
440	10/11/2018 15:06	0.000	0.000	0.000
441	10/11/2018 15:07	0.000	0.000	0.000
442	10/11/2018 15:08	0.000	0.000	0.000
443	10/11/2018 15:09	0.000	0.000	0.000
444	10/11/2018 15:10	0.000	0.000	0.000
445	10/11/2018 15:11	0.000	0.000	0.000
446	10/11/2018 15:12	0.000	0.000	0.000
447	10/11/2018 15:13	0.000	0.000	0.000
448	10/11/2018 15:14	0.000	0.000	0.000
449	10/11/2018 15:15	0.000	0.000	0.000
450	10/11/2018 15:16	0.000	0.000	0.000
451	10/11/2018 15:17	0.000	0.000	0.000
452	10/11/2018 15:18	0.000	0.000	0.000
453	10/11/2018 15:19	0.000	0.000	0.000
454	10/11/2018 15:20	0.000	0.000	0.000
455	10/11/2018 15:21	0.000	0.000	0.000
456	10/11/2018 15:22	0.000	0.000	0.000
457	10/11/2018 15:23	0.000	0.000	0.000
458	10/11/2018 15:24	0.000	0.000	0.000
459	10/11/2018 15:25	0.000	0.000	0.000
460	10/11/2018 15:26	0.000	0.000	0.000
461	10/11/2018 15:27	0.000	0.000	0.000
462	10/11/2018 15:28	0.000	0.000	0.000
463	10/11/2018 15:29	0.000	0.000	0.000
464	10/11/2018 15:30	0.000	0.000	0.000
465	10/11/2018 15:31	0.000	0.000	0.000
466	10/11/2018 15:32	0.000	0.000	0.000
467	10/11/2018 15:33	0.000	0.000	0.000
468	10/11/2018 15:34	0.000	0.000	0.000
469	10/11/2018 15:35	0.000	0.000	0.000
470	10/11/2018 15:36	0.000	0.000	0.000
471	10/11/2018 15:37	0.000	0.000	0.000
472	10/11/2018 15:38	0.000	0.000	0.000
473	10/11/2018 15:39	0.000	0.000	0.000
474	10/11/2018 15:40	0.000	0.000	0.000
475	10/11/2018 15:41	0.000	0.000	0.000
476	10/11/2018 15:42	0.000	0.000	0.000

477	10/11/2018 15:43	0.000	0.000	0.000
478	10/11/2018 15:44	0.000	0.000	0.000
479	10/11/2018 15:45	0.000	0.000	0.000
480	10/11/2018 15:46	0.000	0.000	0.000
481	10/11/2018 15:47	0.000	0.000	0.000
482	10/11/2018 15:48	0.000	0.000	0.000
483	10/11/2018 15:49	0.000	0.000	0.000
484	10/11/2018 15:50	0.000	0.000	0.000
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489	10/11/2018 15:55	0.000	0.000	0.000
490	10/11/2018 15:56	0.000	0.000	0.000
491	10/11/2018 15:57	0.000	0.000	0.000
492	10/11/2018 15:58	0.000	0.000	0.000
493	10/11/2018 15:59	0.000	0.000	0.000
494	10/11/2018 16:00	0.000	0.000	0.000
495	10/11/2018 16:01	0.000	0.000	0.000
496	10/11/2018 16:02	0.000	0.000	0.000
497	10/11/2018 16:03	0.000	0.000	0.000
498	10/11/2018 16:04	0.000	0.000	0.000
499	10/11/2018 16:05	0.000	0.000	0.000
500	10/11/2018 16:06	0.000	0.000	0.000
501	10/11/2018 16:07	0.000	0.000	0.000
502	10/11/2018 16:08	0.000	0.000	0.000
503	10/11/2018 16:09	0.000	0.000	0.000
504	10/11/2018 16:10	0.000	0.000	0.000
505	10/11/2018 16:11	0.000	0.000	0.000
506	10/11/2018 16:12	0.000	0.000	0.000
507	10/11/2018 16:13	0.000	0.000	0.000
508	10/11/2018 16:14	0.000	0.000	0.000
509	10/11/2018 16:15	0.000	0.000	0.000
510	10/11/2018 16:16	0.000	0.000	0.000
511	10/11/2018 16:17	0.000	0.000	0.000
512	10/11/2018 16:18	0.000	0.000	0.000
513	10/11/2018 16:19	0.000	0.000	0.000
514	10/11/2018 16:20	0.000	0.000	0.000
515	10/11/2018 16:21	0.000	0.000	0.000
516	10/11/2018 16:22	0.000	0.000	0.000
517	10/11/2018 16:23	0.000	0.000	0.000
518	10/11/2018 16:24	0.000	0.000	0.000
519	10/11/2018 16:25	0.000	0.000	0.000
520	10/11/2018 16:26	0.000	0.000	0.000
521	10/11/2018 16:27	0.000	0.000	0.000
522	10/11/2018 16:28	0.000	0.000	0.000
523	10/11/2018 16:29	0.000	0.000	0.000

524	10/11/2018 16:30	0.000	0.000	0.000
525	10/11/2018 16:31	0.000	0.000	0.000
526	10/11/2018 16:32	0.000	0.000	0.000
527	10/11/2018 16:33	0.000	0.000	0.000
528	10/11/2018 16:34	0.000	0.000	0.000
529	10/11/2018 16:35	0.000	0.000	0.000
530	10/11/2018 16:36	0.000	0.000	0.000

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18/10/12 07:32

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-910739  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
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Site ID         12345678  
User ID         12345678  
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Begin           2018/10/12 07:33:24  
End             2018/10/12 14:15:24  
Sample Period(s) 60  
Number of Records 403  
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Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/12 07:31  
Peak           0.587  
Min            0.000  
Average        0.151  
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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/12/2018 7:33	0.000	0.000	0.000
2	10/12/2018 7:34	0.000	0.000	0.000
3	10/12/2018 7:35	0.000	0.000	0.000
4	10/12/2018 7:36	0.000	0.000	0.000
5	10/12/2018 7:37	0.000	0.000	0.000
6	10/12/2018 7:38	0.000	0.000	0.000

7	10/12/2018 7:39	0.000	0.000	0.000
8	10/12/2018 7:40	0.013	0.139	0.139
9	10/12/2018 7:41	0.318	0.465	0.444
10	10/12/2018 7:42	0.451	0.587	0.034
11	10/12/2018 7:43	0.029	0.035	0.025
12	10/12/2018 7:44	0.026	0.033	0.027
13	10/12/2018 7:45	0.036	0.122	0.025
14	10/12/2018 7:46	0.022	0.029	0.023
15	10/12/2018 7:47	0.021	0.027	0.027
16	10/12/2018 7:48	0.023	0.029	0.024
17	10/12/2018 7:49	0.020	0.026	0.020
18	10/12/2018 7:50	0.021	0.025	0.024
19	10/12/2018 7:51	0.023	0.031	0.029
20	10/12/2018 7:52	0.021	0.033	0.014
21	10/12/2018 7:53	0.023	0.034	0.027
22	10/12/2018 7:54	0.023	0.032	0.027
23	10/12/2018 7:55	0.027	0.035	0.030
24	10/12/2018 7:56	0.025	0.030	0.030
25	10/12/2018 7:57	0.025	0.033	0.029
26	10/12/2018 7:58	0.026	0.042	0.021
27	10/12/2018 7:59	0.022	0.030	0.020
28	10/12/2018 8:00	0.019	0.037	0.023
29	10/12/2018 8:01	0.021	0.029	0.022
30	10/12/2018 8:02	0.031	0.040	0.032
31	10/12/2018 8:03	0.025	0.035	0.017
32	10/12/2018 8:04	0.034	0.041	0.032
33	10/12/2018 8:05	0.025	0.035	0.010
34	10/12/2018 8:06	0.038	0.083	0.037
35	10/12/2018 8:07	0.021	0.037	0.004
36	10/12/2018 8:08	0.025	0.035	0.031
37	10/12/2018 8:09	0.032	0.040	0.028
38	10/12/2018 8:10	0.036	0.044	0.032
39	10/12/2018 8:11	0.032	0.038	0.038
40	10/12/2018 8:12	0.037	0.048	0.048
41	10/12/2018 8:13	0.044	0.060	0.042
42	10/12/2018 8:14	0.040	0.049	0.045
43	10/12/2018 8:15	0.036	0.045	0.026
44	10/12/2018 8:16	0.032	0.040	0.033
45	10/12/2018 8:17	0.033	0.048	0.048
46	10/12/2018 8:18	0.033	0.048	0.039
47	10/12/2018 8:19	0.038	0.050	0.046
48	10/12/2018 8:20	0.040	0.055	0.040
49	10/12/2018 8:21	0.045	0.053	0.050
50	10/12/2018 8:22	0.043	0.051	0.045
51	10/12/2018 8:23	0.042	0.053	0.043
52	10/12/2018 8:24	0.042	0.052	0.039
53	10/12/2018 8:25	0.048	0.060	0.054

54	10/12/2018 8:26	0.052	0.056	0.051
55	10/12/2018 8:27	0.052	0.058	0.044
56	10/12/2018 8:28	0.051	0.061	0.058
57	10/12/2018 8:29	0.054	0.064	0.053
58	10/12/2018 8:30	0.051	0.066	0.066
59	10/12/2018 8:31	0.055	0.068	0.060
60	10/12/2018 8:32	0.062	0.072	0.049
61	10/12/2018 8:33	0.060	0.068	0.067
62	10/12/2018 8:34	0.060	0.069	0.064
63	10/12/2018 8:35	0.062	0.070	0.070
64	10/12/2018 8:36	0.068	0.079	0.064
65	10/12/2018 8:37	0.069	0.076	0.070
66	10/12/2018 8:38	0.066	0.073	0.067
67	10/12/2018 8:39	0.067	0.072	0.067
68	10/12/2018 8:40	0.065	0.074	0.074
69	10/12/2018 8:41	0.068	0.080	0.056
70	10/12/2018 8:42	0.070	0.081	0.071
71	10/12/2018 8:43	0.071	0.080	0.073
72	10/12/2018 8:44	0.073	0.082	0.082
73	10/12/2018 8:45	0.075	0.082	0.071
74	10/12/2018 8:46	0.071	0.086	0.079
75	10/12/2018 8:47	0.074	0.084	0.077
76	10/12/2018 8:48	0.077	0.088	0.083
77	10/12/2018 8:49	0.074	0.094	0.056
78	10/12/2018 8:50	0.067	0.079	0.076
79	10/12/2018 8:51	0.072	0.079	0.076
80	10/12/2018 8:52	0.081	0.086	0.082
81	10/12/2018 8:53	0.077	0.087	0.087
82	10/12/2018 8:54	0.085	0.095	0.088
83	10/12/2018 8:55	0.089	0.097	0.089
84	10/12/2018 8:56	0.092	0.100	0.099
85	10/12/2018 8:57	0.082	0.095	0.082
86	10/12/2018 8:58	0.089	0.103	0.096
87	10/12/2018 8:59	0.088	0.097	0.088
88	10/12/2018 9:00	0.090	0.102	0.102
89	10/12/2018 9:01	0.095	0.104	0.100
90	10/12/2018 9:02	0.098	0.112	0.082
91	10/12/2018 9:03	0.091	0.108	0.096
92	10/12/2018 9:04	0.091	0.099	0.095
93	10/12/2018 9:05	0.092	0.103	0.096
94	10/12/2018 9:06	0.091	0.096	0.096
95	10/12/2018 9:07	0.086	0.099	0.082
96	10/12/2018 9:08	0.089	0.098	0.096
97	10/12/2018 9:09	0.088	0.103	0.102
98	10/12/2018 9:10	0.097	0.109	0.093
99	10/12/2018 9:11	0.093	0.101	0.101
100	10/12/2018 9:12	0.099	0.109	0.091

101	10/12/2018 9:13	0.097	0.103	0.102
102	10/12/2018 9:14	0.096	0.110	0.088
103	10/12/2018 9:15	0.098	0.116	0.114
104	10/12/2018 9:16	0.092	0.111	0.088
105	10/12/2018 9:17	0.102	0.114	0.106
106	10/12/2018 9:18	0.095	0.107	0.101
107	10/12/2018 9:19	0.100	0.113	0.108
108	10/12/2018 9:20	0.109	0.124	0.108
109	10/12/2018 9:21	0.096	0.110	0.107
110	10/12/2018 9:22	0.104	0.115	0.102
111	10/12/2018 9:23	0.097	0.106	0.103
112	10/12/2018 9:24	0.098	0.110	0.094
113	10/12/2018 9:25	0.097	0.106	0.103
114	10/12/2018 9:26	0.096	0.103	0.100
115	10/12/2018 9:27	0.102	0.115	0.106
116	10/12/2018 9:28	0.103	0.116	0.096
117	10/12/2018 9:29	0.107	0.117	0.108
118	10/12/2018 9:30	0.104	0.110	0.107
119	10/12/2018 9:31	0.109	0.117	0.110
120	10/12/2018 9:32	0.101	0.110	0.098
121	10/12/2018 9:33	0.101	0.111	0.097
122	10/12/2018 9:34	0.102	0.111	0.107
123	10/12/2018 9:35	0.102	0.110	0.103
124	10/12/2018 9:36	0.104	0.118	0.105
125	10/12/2018 9:37	0.104	0.113	0.108
126	10/12/2018 9:38	0.106	0.115	0.101
127	10/12/2018 9:39	0.104	0.113	0.108
128	10/12/2018 9:40	0.107	0.126	0.112
129	10/12/2018 9:41	0.110	0.116	0.112
130	10/12/2018 9:42	0.116	0.123	0.115
131	10/12/2018 9:43	0.112	0.124	0.109
132	10/12/2018 9:44	0.114	0.124	0.117
133	10/12/2018 9:45	0.116	0.124	0.119
134	10/12/2018 9:46	0.117	0.134	0.118
135	10/12/2018 9:47	0.118	0.124	0.112
136	10/12/2018 9:48	0.115	0.120	0.118
137	10/12/2018 9:49	0.118	0.131	0.120
138	10/12/2018 9:50	0.119	0.124	0.123
139	10/12/2018 9:51	0.116	0.123	0.121
140	10/12/2018 9:52	0.118	0.122	0.115
141	10/12/2018 9:53	0.122	0.128	0.125
142	10/12/2018 9:54	0.122	0.130	0.129
143	10/12/2018 9:55	0.123	0.130	0.124
144	10/12/2018 9:56	0.125	0.129	0.119
145	10/12/2018 9:57	0.125	0.137	0.118
146	10/12/2018 9:58	0.122	0.131	0.121
147	10/12/2018 9:59	0.119	0.130	0.128



148	10/12/2018 10:00	0.118	0.127	0.119
149	10/12/2018 10:01	0.123	0.129	0.122
150	10/12/2018 10:02	0.119	0.130	0.130
151	10/12/2018 10:03	0.127	0.133	0.129
152	10/12/2018 10:04	0.125	0.135	0.122
153	10/12/2018 10:05	0.123	0.133	0.122
154	10/12/2018 10:06	0.116	0.130	0.111
155	10/12/2018 10:07	0.122	0.132	0.119
156	10/12/2018 10:08	0.131	0.136	0.128
157	10/12/2018 10:09	0.127	0.138	0.130
158	10/12/2018 10:10	0.129	0.136	0.130
159	10/12/2018 10:11	0.122	0.133	0.127
160	10/12/2018 10:12	0.127	0.136	0.120
161	10/12/2018 10:13	0.129	0.136	0.123
162	10/12/2018 10:14	0.126	0.137	0.132
163	10/12/2018 10:15	0.129	0.139	0.126
164	10/12/2018 10:16	0.129	0.140	0.126
165	10/12/2018 10:17	0.126	0.137	0.132
166	10/12/2018 10:18	0.132	0.139	0.130
167	10/12/2018 10:19	0.130	0.139	0.133
168	10/12/2018 10:20	0.131	0.140	0.133
169	10/12/2018 10:21	0.132	0.139	0.133
170	10/12/2018 10:22	0.131	0.139	0.139
171	10/12/2018 10:23	0.132	0.142	0.128
172	10/12/2018 10:24	0.134	0.143	0.136
173	10/12/2018 10:25	0.136	0.146	0.136
174	10/12/2018 10:26	0.140	0.148	0.147
175	10/12/2018 10:27	0.141	0.150	0.144
176	10/12/2018 10:28	0.133	0.144	0.138
177	10/12/2018 10:29	0.148	0.175	0.142
178	10/12/2018 10:30	0.145	0.155	0.141
179	10/12/2018 10:31	0.142	0.149	0.144
180	10/12/2018 10:32	0.145	0.151	0.136
181	10/12/2018 10:33	0.144	0.153	0.145
182	10/12/2018 10:34	0.152	0.161	0.154
183	10/12/2018 10:35	0.149	0.159	0.141
184	10/12/2018 10:36	0.141	0.148	0.145
185	10/12/2018 10:37	0.146	0.157	0.148
186	10/12/2018 10:38	0.146	0.152	0.146
187	10/12/2018 10:39	0.136	0.148	0.135
188	10/12/2018 10:40	0.139	0.148	0.144
189	10/12/2018 10:41	0.146	0.155	0.144
190	10/12/2018 10:42	0.157	0.181	0.159
191	10/12/2018 10:43	0.156	0.172	0.145
192	10/12/2018 10:44	0.144	0.153	0.148
193	10/12/2018 10:45	0.139	0.150	0.148
194	10/12/2018 10:46	0.155	0.187	0.148

195	10/12/2018 10:47	0.153	0.161	0.151
196	10/12/2018 10:48	0.148	0.160	0.140
197	10/12/2018 10:49	0.147	0.156	0.149
198	10/12/2018 10:50	0.148	0.156	0.148
199	10/12/2018 10:51	0.146	0.161	0.140
200	10/12/2018 10:52	0.147	0.159	0.157
201	10/12/2018 10:53	0.155	0.169	0.149
202	10/12/2018 10:54	0.162	0.208	0.157
203	10/12/2018 10:55	0.147	0.156	0.152
204	10/12/2018 10:56	0.155	0.166	0.158
205	10/12/2018 10:57	0.153	0.160	0.149
206	10/12/2018 10:58	0.146	0.158	0.152
207	10/12/2018 10:59	0.161	0.208	0.149
208	10/12/2018 11:00	0.148	0.158	0.147
209	10/12/2018 11:01	0.154	0.164	0.157
210	10/12/2018 11:02	0.158	0.173	0.154
211	10/12/2018 11:03	0.151	0.162	0.162
212	10/12/2018 11:04	0.153	0.165	0.146
213	10/12/2018 11:05	0.155	0.160	0.153
214	10/12/2018 11:06	0.164	0.176	0.174
215	10/12/2018 11:07	0.167	0.178	0.152
216	10/12/2018 11:08	0.153	0.165	0.151
217	10/12/2018 11:09	0.152	0.161	0.146
218	10/12/2018 11:10	0.147	0.159	0.159
219	10/12/2018 11:11	0.150	0.161	0.153
220	10/12/2018 11:12	0.164	0.188	0.152
221	10/12/2018 11:13	0.158	0.167	0.157
222	10/12/2018 11:14	0.154	0.162	0.151
223	10/12/2018 11:15	0.154	0.160	0.159
224	10/12/2018 11:16	0.152	0.160	0.153
225	10/12/2018 11:17	0.151	0.162	0.146
226	10/12/2018 11:18	0.147	0.159	0.145
227	10/12/2018 11:19	0.151	0.164	0.153
228	10/12/2018 11:20	0.149	0.159	0.140
229	10/12/2018 11:21	0.149	0.168	0.167
230	10/12/2018 11:22	0.157	0.169	0.152
231	10/12/2018 11:23	0.148	0.160	0.139
232	10/12/2018 11:24	0.150	0.165	0.148
233	10/12/2018 11:25	0.146	0.175	0.175
234	10/12/2018 11:26	0.156	0.175	0.160
235	10/12/2018 11:27	0.155	0.162	0.158
236	10/12/2018 11:28	0.148	0.155	0.149
237	10/12/2018 11:29	0.152	0.162	0.152
238	10/12/2018 11:30	0.150	0.158	0.145
239	10/12/2018 11:31	0.154	0.165	0.156
240	10/12/2018 11:32	0.160	0.171	0.171
241	10/12/2018 11:33	0.166	0.172	0.158

242	10/12/2018 11:34	0.154	0.165	0.163
243	10/12/2018 11:35	0.161	0.171	0.157
244	10/12/2018 11:36	0.155	0.165	0.153
245	10/12/2018 11:37	0.162	0.174	0.155
246	10/12/2018 11:38	0.159	0.170	0.152
247	10/12/2018 11:39	0.156	0.164	0.155
248	10/12/2018 11:40	0.154	0.160	0.159
249	10/12/2018 11:41	0.150	0.157	0.157
250	10/12/2018 11:42	0.159	0.165	0.157
251	10/12/2018 11:43	0.154	0.164	0.160
252	10/12/2018 11:44	0.158	0.168	0.161
253	10/12/2018 11:45	0.163	0.176	0.160
254	10/12/2018 11:46	0.160	0.169	0.158
255	10/12/2018 11:47	0.161	0.170	0.160
256	10/12/2018 11:48	0.164	0.173	0.169
257	10/12/2018 11:49	0.169	0.184	0.170
258	10/12/2018 11:50	0.169	0.184	0.160
259	10/12/2018 11:51	0.173	0.195	0.174
260	10/12/2018 11:52	0.171	0.178	0.165
261	10/12/2018 11:53	0.169	0.178	0.177
262	10/12/2018 11:54	0.176	0.185	0.179
263	10/12/2018 11:55	0.186	0.206	0.189
264	10/12/2018 11:56	0.186	0.190	0.188
265	10/12/2018 11:57	0.185	0.191	0.187
266	10/12/2018 11:58	0.190	0.199	0.194
267	10/12/2018 11:59	0.191	0.197	0.191
268	10/12/2018 12:00	0.190	0.196	0.186
269	10/12/2018 12:01	0.192	0.202	0.196
270	10/12/2018 12:02	0.193	0.202	0.191
271	10/12/2018 12:03	0.195	0.209	0.202
272	10/12/2018 12:04	0.201	0.209	0.197
273	10/12/2018 12:05	0.200	0.209	0.202
274	10/12/2018 12:06	0.201	0.210	0.210
275	10/12/2018 12:07	0.211	0.241	0.204
276	10/12/2018 12:08	0.203	0.209	0.204
277	10/12/2018 12:09	0.199	0.208	0.202
278	10/12/2018 12:10	0.200	0.208	0.204
279	10/12/2018 12:11	0.203	0.213	0.201
280	10/12/2018 12:12	0.202	0.206	0.204
281	10/12/2018 12:13	0.204	0.210	0.207
282	10/12/2018 12:14	0.205	0.210	0.206
283	10/12/2018 12:15	0.208	0.213	0.213
284	10/12/2018 12:16	0.214	0.221	0.210
285	10/12/2018 12:17	0.213	0.223	0.221
286	10/12/2018 12:18	0.218	0.228	0.225
287	10/12/2018 12:19	0.223	0.234	0.229
288	10/12/2018 12:20	0.221	0.230	0.221

289	10/12/2018 12:21	0.226	0.232	0.223
290	10/12/2018 12:22	0.225	0.233	0.221
291	10/12/2018 12:23	0.226	0.234	0.232
292	10/12/2018 12:24	0.234	0.262	0.232
293	10/12/2018 12:25	0.233	0.237	0.235
294	10/12/2018 12:26	0.233	0.238	0.227
295	10/12/2018 12:27	0.233	0.241	0.234
296	10/12/2018 12:28	0.236	0.246	0.235
297	10/12/2018 12:29	0.236	0.247	0.238
298	10/12/2018 12:30	0.242	0.251	0.234
299	10/12/2018 12:31	0.239	0.244	0.239
300	10/12/2018 12:32	0.238	0.243	0.234
301	10/12/2018 12:33	0.239	0.245	0.241
302	10/12/2018 12:34	0.246	0.262	0.242
303	10/12/2018 12:35	0.244	0.249	0.242
304	10/12/2018 12:36	0.250	0.256	0.249
305	10/12/2018 12:37	0.250	0.256	0.251
306	10/12/2018 12:38	0.255	0.265	0.254
307	10/12/2018 12:39	0.252	0.256	0.252
308	10/12/2018 12:40	0.253	0.260	0.254
309	10/12/2018 12:41	0.252	0.255	0.252
310	10/12/2018 12:42	0.254	0.261	0.259
311	10/12/2018 12:43	0.248	0.256	0.249
312	10/12/2018 12:44	0.250	0.257	0.252
313	10/12/2018 12:45	0.250	0.255	0.255
314	10/12/2018 12:46	0.251	0.257	0.251
315	10/12/2018 12:47	0.252	0.257	0.250
316	10/12/2018 12:48	0.255	0.262	0.256
317	10/12/2018 12:49	0.254	0.260	0.258
318	10/12/2018 12:50	0.257	0.263	0.263
319	10/12/2018 12:51	0.260	0.267	0.259
320	10/12/2018 12:52	0.259	0.267	0.265
321	10/12/2018 12:53	0.264	0.269	0.263
322	10/12/2018 12:54	0.266	0.274	0.273
323	10/12/2018 12:55	0.269	0.275	0.271
324	10/12/2018 12:56	0.271	0.276	0.268
325	10/12/2018 12:57	0.271	0.312	0.265
326	10/12/2018 12:58	0.268	0.273	0.271
327	10/12/2018 12:59	0.272	0.277	0.270
328	10/12/2018 13:00	0.270	0.277	0.275
329	10/12/2018 13:01	0.290	0.358	0.279
330	10/12/2018 13:02	0.281	0.285	0.283
331	10/12/2018 13:03	0.281	0.288	0.281
332	10/12/2018 13:04	0.283	0.312	0.273
333	10/12/2018 13:05	0.272	0.278	0.276
334	10/12/2018 13:06	0.277	0.281	0.281
335	10/12/2018 13:07	0.283	0.288	0.283

336	10/12/2018 13:08	0.285	0.298	0.285
337	10/12/2018 13:09	0.285	0.291	0.288
338	10/12/2018 13:10	0.284	0.292	0.285
339	10/12/2018 13:11	0.281	0.285	0.277
340	10/12/2018 13:12	0.280	0.288	0.283
341	10/12/2018 13:13	0.281	0.288	0.283
342	10/12/2018 13:14	0.282	0.285	0.284
343	10/12/2018 13:15	0.279	0.289	0.278
344	10/12/2018 13:16	0.277	0.281	0.276
345	10/12/2018 13:17	0.272	0.278	0.272
346	10/12/2018 13:18	0.274	0.279	0.274
347	10/12/2018 13:19	0.282	0.312	0.279
348	10/12/2018 13:20	0.273	0.279	0.273
349	10/12/2018 13:21	0.273	0.281	0.274
350	10/12/2018 13:22	0.263	0.273	0.257
351	10/12/2018 13:23	0.263	0.272	0.261
352	10/12/2018 13:24	0.253	0.262	0.246
353	10/12/2018 13:25	0.247	0.251	0.246
354	10/12/2018 13:26	0.247	0.253	0.251
355	10/12/2018 13:27	0.256	0.297	0.241
356	10/12/2018 13:28	0.245	0.251	0.243
357	10/12/2018 13:29	0.242	0.250	0.250
358	10/12/2018 13:30	0.251	0.273	0.245
359	10/12/2018 13:31	0.240	0.247	0.238
360	10/12/2018 13:32	0.239	0.246	0.234
361	10/12/2018 13:33	0.235	0.242	0.234
362	10/12/2018 13:34	0.236	0.257	0.257
363	10/12/2018 13:35	0.250	0.265	0.233
364	10/12/2018 13:36	0.226	0.232	0.223
365	10/12/2018 13:37	0.223	0.230	0.224
366	10/12/2018 13:38	0.222	0.229	0.222
367	10/12/2018 13:39	0.217	0.226	0.215
368	10/12/2018 13:40	0.215	0.220	0.213
369	10/12/2018 13:41	0.219	0.225	0.218
370	10/12/2018 13:42	0.220	0.228	0.220
371	10/12/2018 13:43	0.217	0.222	0.220
372	10/12/2018 13:44	0.221	0.226	0.223
373	10/12/2018 13:45	0.219	0.225	0.218
374	10/12/2018 13:46	0.217	0.225	0.219
375	10/12/2018 13:47	0.215	0.221	0.217
376	10/12/2018 13:48	0.212	0.219	0.211
377	10/12/2018 13:49	0.214	0.220	0.219
378	10/12/2018 13:50	0.217	0.222	0.215
379	10/12/2018 13:51	0.217	0.220	0.213
380	10/12/2018 13:52	0.209	0.214	0.213
381	10/12/2018 13:53	0.211	0.216	0.213
382	10/12/2018 13:54	0.212	0.219	0.212

383	10/12/2018 13:55	0.210	0.216	0.205
384	10/12/2018 13:56	0.205	0.212	0.199
385	10/12/2018 13:57	0.201	0.206	0.206
386	10/12/2018 13:58	0.206	0.213	0.205
387	10/12/2018 13:59	0.203	0.208	0.205
388	10/12/2018 14:00	0.202	0.207	0.197
389	10/12/2018 14:01	0.204	0.212	0.202
390	10/12/2018 14:02	0.205	0.219	0.217
391	10/12/2018 14:03	0.201	0.213	0.201
392	10/12/2018 14:04	0.202	0.211	0.206
393	10/12/2018 14:05	0.208	0.214	0.207
394	10/12/2018 14:06	0.207	0.212	0.211
395	10/12/2018 14:07	0.208	0.215	0.208
396	10/12/2018 14:08	0.203	0.208	0.197
397	10/12/2018 14:09	0.202	0.206	0.202
398	10/12/2018 14:10	0.202	0.213	0.200
399	10/12/2018 14:11	0.204	0.210	0.205
400	10/12/2018 14:12	0.208	0.225	0.207
401	10/12/2018 14:13	0.205	0.218	0.204
402	10/12/2018 14:14	0.208	0.213	0.212
403	10/12/2018 14:15	0.212	0.217	0.216

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18/10/15 07:37

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Summary

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Unit Name           MiniRAE 3000(PGM-7320)  
Unit SN             592-910739  
Unit Firmware Ver   V1.20B  
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Running Mode        Hygiene Mode  
Measure Type        Avg; Max; Real  
Datalog Mode        Continuous  
Datalog Type        Auto  
Diagnostic Mode     No  
Stop Reason         Power Down  
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Site ID                   12345678  
User ID                   12345678  
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Begin                    10/15/2018 7:38  
End                      10/15/2018 15:46  
Sample Period(s)         60  
Number of Records        489  
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Sensor                    VOC(ppm)  
Span                      100  
Span 2                    N/A  
Low Alarm                 50  
High Alarm                100  
Over Alarm                15000  
STEL Alarm                25  
TWA Alarm                 10  
Measurement Gas          Isobutylene  
Calibration Time         10/15/2018 7:31  
Peak                      0.671  
Min                        0.000  
Average                  0.316  
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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	10/15/2018 7:38	0.000	0.001	0.000
2	10/15/2018 7:39	0.000	0.000	0.000
3	10/15/2018 7:40	0.000	0.000	0.000
4	10/15/2018 7:41	0.000	0.000	0.000
5	10/15/2018 7:42	0.002	0.013	0.005

6	10/15/2018 7:43	0.000	0.011	0.011
7	10/15/2018 7:44	0.000	0.009	0.007
8	10/15/2018 7:45	0.002	0.010	0.000
9	10/15/2018 7:46	0.000	0.003	0.000
10	10/15/2018 7:47	0.000	0.003	0.000
11	10/15/2018 7:48	0.001	0.006	0.000
12	10/15/2018 7:49	0.000	0.002	0.000
13	10/15/2018 7:50	0.000	0.002	0.000
14	10/15/2018 7:51	0.001	0.005	0.000
15	10/15/2018 7:52	0.008	0.014	0.009
16	10/15/2018 7:53	0.002	0.008	0.004
17	10/15/2018 7:54	0.005	0.011	0.003
18	10/15/2018 7:55	0.010	0.022	0.009
19	10/15/2018 7:56	0.005	0.015	0.013
20	10/15/2018 7:57	0.015	0.023	0.019
21	10/15/2018 7:58	0.016	0.022	0.015
22	10/15/2018 7:59	0.022	0.035	0.021
23	10/15/2018 8:00	0.019	0.025	0.025
24	10/15/2018 8:01	0.025	0.031	0.024
25	10/15/2018 8:02	0.025	0.030	0.020
26	10/15/2018 8:03	0.027	0.037	0.037
27	10/15/2018 8:04	0.033	0.040	0.039
28	10/15/2018 8:05	0.036	0.046	0.033
29	10/15/2018 8:06	0.036	0.042	0.040
30	10/15/2018 8:07	0.040	0.045	0.044
31	10/15/2018 8:08	0.045	0.051	0.051
32	10/15/2018 8:09	0.051	0.056	0.052
33	10/15/2018 8:10	0.046	0.052	0.051
34	10/15/2018 8:11	0.046	0.053	0.050
35	10/15/2018 8:12	0.051	0.058	0.053
36	10/15/2018 8:13	0.055	0.062	0.061
37	10/15/2018 8:14	0.053	0.060	0.050
38	10/15/2018 8:15	0.053	0.058	0.055
39	10/15/2018 8:16	0.054	0.062	0.051
40	10/15/2018 8:17	0.054	0.064	0.062
41	10/15/2018 8:18	0.055	0.065	0.049
42	10/15/2018 8:19	0.052	0.058	0.057
43	10/15/2018 8:20	0.059	0.064	0.057
44	10/15/2018 8:21	0.059	0.066	0.061
45	10/15/2018 8:22	0.059	0.065	0.058
46	10/15/2018 8:23	0.062	0.075	0.073
47	10/15/2018 8:24	0.070	0.077	0.072
48	10/15/2018 8:25	0.067	0.080	0.069
49	10/15/2018 8:26	0.087	0.107	0.079
50	10/15/2018 8:27	0.077	0.085	0.079
51	10/15/2018 8:28	0.076	0.087	0.073
52	10/15/2018 8:29	0.069	0.078	0.062



53	10/15/2018 8:30	0.065	0.073	0.067
54	10/15/2018 8:31	0.067	0.073	0.064
55	10/15/2018 8:32	0.057	0.067	0.058
56	10/15/2018 8:33	0.062	0.068	0.064
57	10/15/2018 8:34	0.065	0.072	0.058
58	10/15/2018 8:35	0.066	0.075	0.068
59	10/15/2018 8:36	0.071	0.077	0.075
60	10/15/2018 8:37	0.083	0.093	0.083
61	10/15/2018 8:38	0.077	0.085	0.076
62	10/15/2018 8:39	0.084	0.094	0.093
63	10/15/2018 8:40	0.089	0.094	0.090
64	10/15/2018 8:41	0.086	0.095	0.095
65	10/15/2018 8:42	0.092	0.102	0.102
66	10/15/2018 8:43	0.100	0.107	0.100
67	10/15/2018 8:44	0.099	0.104	0.100
68	10/15/2018 8:45	0.101	0.107	0.105
69	10/15/2018 8:46	0.110	0.119	0.113
70	10/15/2018 8:47	0.114	0.121	0.119
71	10/15/2018 8:48	0.121	0.131	0.131
72	10/15/2018 8:49	0.133	0.139	0.129
73	10/15/2018 8:50	0.131	0.141	0.140
74	10/15/2018 8:51	0.140	0.153	0.152
75	10/15/2018 8:52	0.143	0.151	0.151
76	10/15/2018 8:53	0.144	0.155	0.144
77	10/15/2018 8:54	0.147	0.155	0.138
78	10/15/2018 8:55	0.143	0.150	0.148
79	10/15/2018 8:56	0.144	0.157	0.157
80	10/15/2018 8:57	0.152	0.159	0.151
81	10/15/2018 8:58	0.163	0.172	0.172
82	10/15/2018 8:59	0.168	0.179	0.160
83	10/15/2018 9:00	0.163	0.175	0.172
84	10/15/2018 9:01	0.168	0.176	0.168
85	10/15/2018 9:02	0.165	0.172	0.166
86	10/15/2018 9:03	0.166	0.173	0.168
87	10/15/2018 9:04	0.170	0.178	0.163
88	10/15/2018 9:05	0.170	0.179	0.179
89	10/15/2018 9:06	0.177	0.185	0.176
90	10/15/2018 9:07	0.189	0.197	0.182
91	10/15/2018 9:08	0.187	0.197	0.194
92	10/15/2018 9:09	0.190	0.201	0.196
93	10/15/2018 9:10	0.197	0.203	0.196
94	10/15/2018 9:11	0.197	0.204	0.193
95	10/15/2018 9:12	0.205	0.215	0.203
96	10/15/2018 9:13	0.202	0.213	0.205
97	10/15/2018 9:14	0.204	0.213	0.202
98	10/15/2018 9:15	0.205	0.214	0.214
99	10/15/2018 9:16	0.204	0.212	0.208

100	10/15/2018 9:17	0.214	0.231	0.219
101	10/15/2018 9:18	0.220	0.231	0.208
102	10/15/2018 9:19	0.214	0.220	0.218
103	10/15/2018 9:20	0.222	0.229	0.221
104	10/15/2018 9:21	0.226	0.237	0.232
105	10/15/2018 9:22	0.229	0.237	0.227
106	10/15/2018 9:23	0.235	0.241	0.235
107	10/15/2018 9:24	0.237	0.246	0.234
108	10/15/2018 9:25	0.231	0.240	0.240
109	10/15/2018 9:26	0.237	0.248	0.236
110	10/15/2018 9:27	0.237	0.244	0.233
111	10/15/2018 9:28	0.235	0.246	0.240
112	10/15/2018 9:29	0.242	0.259	0.243
113	10/15/2018 9:30	0.246	0.256	0.252
114	10/15/2018 9:31	0.247	0.261	0.242
115	10/15/2018 9:32	0.257	0.270	0.260
116	10/15/2018 9:33	0.251	0.262	0.240
117	10/15/2018 9:34	0.255	0.264	0.259
118	10/15/2018 9:35	0.257	0.269	0.258
119	10/15/2018 9:36	0.264	0.274	0.264
120	10/15/2018 9:37	0.273	0.281	0.279
121	10/15/2018 9:38	0.280	0.285	0.268
122	10/15/2018 9:39	0.274	0.283	0.277
123	10/15/2018 9:40	0.275	0.284	0.277
124	10/15/2018 9:41	0.281	0.296	0.273
125	10/15/2018 9:42	0.277	0.287	0.281
126	10/15/2018 9:43	0.286	0.296	0.288
127	10/15/2018 9:44	0.302	0.402	0.381
128	10/15/2018 9:45	0.323	0.361	0.305
129	10/15/2018 9:46	0.301	0.318	0.307
130	10/15/2018 9:47	0.298	0.309	0.293
131	10/15/2018 9:48	0.299	0.312	0.293
132	10/15/2018 9:49	0.289	0.300	0.295
133	10/15/2018 9:50	0.300	0.320	0.305
134	10/15/2018 9:51	0.301	0.314	0.298
135	10/15/2018 9:52	0.309	0.321	0.317
136	10/15/2018 9:53	0.316	0.331	0.330
137	10/15/2018 9:54	0.324	0.337	0.314
138	10/15/2018 9:55	0.314	0.329	0.320
139	10/15/2018 9:56	0.325	0.336	0.326
140	10/15/2018 9:57	0.326	0.338	0.332
141	10/15/2018 9:58	0.326	0.336	0.327
142	10/15/2018 9:59	0.331	0.360	0.328
143	10/15/2018 10:00	0.335	0.361	0.357
144	10/15/2018 10:01	0.347	0.363	0.355
145	10/15/2018 10:02	0.347	0.363	0.363
146	10/15/2018 10:03	0.349	0.364	0.345

147	10/15/2018 10:04	0.339	0.354	0.328
148	10/15/2018 10:05	0.340	0.354	0.346
149	10/15/2018 10:06	0.342	0.352	0.345
150	10/15/2018 10:07	0.340	0.349	0.345
151	10/15/2018 10:08	0.353	0.370	0.357
152	10/15/2018 10:09	0.353	0.369	0.349
153	10/15/2018 10:10	0.337	0.350	0.350
154	10/15/2018 10:11	0.344	0.356	0.342
155	10/15/2018 10:12	0.346	0.355	0.342
156	10/15/2018 10:13	0.350	0.377	0.351
157	10/15/2018 10:14	0.354	0.367	0.355
158	10/15/2018 10:15	0.354	0.369	0.369
159	10/15/2018 10:16	0.358	0.373	0.355
160	10/15/2018 10:17	0.360	0.373	0.369
161	10/15/2018 10:18	0.375	0.397	0.366
162	10/15/2018 10:19	0.373	0.395	0.378
163	10/15/2018 10:20	0.373	0.385	0.363
164	10/15/2018 10:21	0.370	0.387	0.364
165	10/15/2018 10:22	0.376	0.386	0.379
166	10/15/2018 10:23	0.387	0.409	0.379
167	10/15/2018 10:24	0.380	0.390	0.382
168	10/15/2018 10:25	0.380	0.392	0.388
169	10/15/2018 10:26	0.392	0.409	0.396
170	10/15/2018 10:27	0.395	0.416	0.387
171	10/15/2018 10:28	0.395	0.411	0.391
172	10/15/2018 10:29	0.390	0.400	0.400
173	10/15/2018 10:30	0.393	0.406	0.389
174	10/15/2018 10:31	0.390	0.409	0.409
175	10/15/2018 10:32	0.385	0.406	0.383
176	10/15/2018 10:33	0.379	0.389	0.371
177	10/15/2018 10:34	0.383	0.394	0.377
178	10/15/2018 10:35	0.378	0.392	0.377
179	10/15/2018 10:36	0.387	0.402	0.400
180	10/15/2018 10:37	0.389	0.399	0.399
181	10/15/2018 10:38	0.384	0.399	0.389
182	10/15/2018 10:39	0.386	0.391	0.386
183	10/15/2018 10:40	0.392	0.401	0.389
184	10/15/2018 10:41	0.394	0.408	0.389
185	10/15/2018 10:42	0.389	0.395	0.390
186	10/15/2018 10:43	0.392	0.406	0.398
187	10/15/2018 10:44	0.407	0.427	0.394
188	10/15/2018 10:45	0.399	0.417	0.399
189	10/15/2018 10:46	0.408	0.452	0.393
190	10/15/2018 10:47	0.409	0.439	0.396
191	10/15/2018 10:48	0.387	0.395	0.386
192	10/15/2018 10:49	0.384	0.399	0.381
193	10/15/2018 10:50	0.390	0.410	0.384

194	10/15/2018 10:51	0.387	0.401	0.383
195	10/15/2018 10:52	0.384	0.396	0.395
196	10/15/2018 10:53	0.387	0.401	0.384
197	10/15/2018 10:54	0.388	0.406	0.383
198	10/15/2018 10:55	0.375	0.386	0.383
199	10/15/2018 10:56	0.376	0.395	0.395
200	10/15/2018 10:57	0.378	0.398	0.367
201	10/15/2018 10:58	0.375	0.389	0.372
202	10/15/2018 10:59	0.377	0.392	0.373
203	10/15/2018 11:00	0.371	0.383	0.365
204	10/15/2018 11:01	0.373	0.391	0.374
205	10/15/2018 11:02	0.380	0.388	0.387
206	10/15/2018 11:03	0.384	0.391	0.379
207	10/15/2018 11:04	0.375	0.385	0.373
208	10/15/2018 11:05	0.379	0.386	0.375
209	10/15/2018 11:06	0.371	0.377	0.368
210	10/15/2018 11:07	0.375	0.386	0.375
211	10/15/2018 11:08	0.377	0.388	0.378
212	10/15/2018 11:09	0.374	0.384	0.383
213	10/15/2018 11:10	0.385	0.400	0.386
214	10/15/2018 11:11	0.393	0.407	0.399
215	10/15/2018 11:12	0.391	0.406	0.383
216	10/15/2018 11:13	0.381	0.393	0.382
217	10/15/2018 11:14	0.387	0.398	0.383
218	10/15/2018 11:15	0.393	0.401	0.398
219	10/15/2018 11:16	0.396	0.412	0.399
220	10/15/2018 11:17	0.408	0.423	0.420
221	10/15/2018 11:18	0.418	0.500	0.404
222	10/15/2018 11:19	0.404	0.415	0.396
223	10/15/2018 11:20	0.397	0.419	0.398
224	10/15/2018 11:21	0.398	0.415	0.405
225	10/15/2018 11:22	0.400	0.412	0.391
226	10/15/2018 11:23	0.389	0.398	0.392
227	10/15/2018 11:24	0.391	0.409	0.406
228	10/15/2018 11:25	0.406	0.429	0.412
229	10/15/2018 11:26	0.403	0.415	0.415
230	10/15/2018 11:27	0.418	0.439	0.398
231	10/15/2018 11:28	0.414	0.452	0.405
232	10/15/2018 11:29	0.418	0.429	0.416
233	10/15/2018 11:30	0.421	0.440	0.412
234	10/15/2018 11:31	0.424	0.445	0.442
235	10/15/2018 11:32	0.423	0.449	0.409
236	10/15/2018 11:33	0.413	0.425	0.412
237	10/15/2018 11:34	0.409	0.434	0.434
238	10/15/2018 11:35	0.419	0.435	0.420
239	10/15/2018 11:36	0.423	0.440	0.430
240	10/15/2018 11:37	0.427	0.445	0.411

241	10/15/2018 11:38	0.418	0.433	0.414
242	10/15/2018 11:39	0.422	0.436	0.414
243	10/15/2018 11:40	0.416	0.426	0.416
244	10/15/2018 11:41	0.413	0.423	0.414
245	10/15/2018 11:42	0.415	0.433	0.414
246	10/15/2018 11:43	0.418	0.428	0.418
247	10/15/2018 11:44	0.419	0.437	0.410
248	10/15/2018 11:45	0.416	0.428	0.409
249	10/15/2018 11:46	0.413	0.421	0.417
250	10/15/2018 11:47	0.416	0.424	0.412
251	10/15/2018 11:48	0.412	0.424	0.422
252	10/15/2018 11:49	0.412	0.423	0.406
253	10/15/2018 11:50	0.411	0.427	0.414
254	10/15/2018 11:51	0.415	0.424	0.418
255	10/15/2018 11:52	0.423	0.444	0.420
256	10/15/2018 11:53	0.424	0.438	0.418
257	10/15/2018 11:54	0.423	0.446	0.445
258	10/15/2018 11:55	0.426	0.445	0.440
259	10/15/2018 11:56	0.419	0.437	0.411
260	10/15/2018 11:57	0.417	0.428	0.416
261	10/15/2018 11:58	0.417	0.428	0.426
262	10/15/2018 11:59	0.416	0.432	0.417
263	10/15/2018 12:00	0.420	0.427	0.420
264	10/15/2018 12:01	0.422	0.436	0.420
265	10/15/2018 12:02	0.419	0.429	0.414
266	10/15/2018 12:03	0.419	0.425	0.421
267	10/15/2018 12:04	0.426	0.440	0.433
268	10/15/2018 12:05	0.433	0.445	0.435
269	10/15/2018 12:06	0.424	0.435	0.432
270	10/15/2018 12:07	0.427	0.435	0.424
271	10/15/2018 12:08	0.426	0.439	0.422
272	10/15/2018 12:09	0.430	0.439	0.431
273	10/15/2018 12:10	0.437	0.460	0.460
274	10/15/2018 12:11	0.448	0.521	0.471
275	10/15/2018 12:12	0.448	0.500	0.453
276	10/15/2018 12:13	0.440	0.450	0.450
277	10/15/2018 12:14	0.446	0.466	0.451
278	10/15/2018 12:15	0.437	0.456	0.442
279	10/15/2018 12:16	0.427	0.445	0.421
280	10/15/2018 12:17	0.428	0.444	0.431
281	10/15/2018 12:18	0.439	0.471	0.459
282	10/15/2018 12:19	0.442	0.472	0.436
283	10/15/2018 12:20	0.422	0.432	0.422
284	10/15/2018 12:21	0.428	0.436	0.429
285	10/15/2018 12:22	0.430	0.440	0.440
286	10/15/2018 12:23	0.429	0.441	0.427
287	10/15/2018 12:24	0.431	0.437	0.430

288	10/15/2018 12:25	0.433	0.449	0.439
289	10/15/2018 12:26	0.430	0.445	0.429
290	10/15/2018 12:27	0.434	0.445	0.427
291	10/15/2018 12:28	0.433	0.442	0.438
292	10/15/2018 12:29	0.438	0.448	0.424
293	10/15/2018 12:30	0.434	0.449	0.432
294	10/15/2018 12:31	0.427	0.434	0.433
295	10/15/2018 12:32	0.430	0.444	0.428
296	10/15/2018 12:33	0.432	0.438	0.434
297	10/15/2018 12:34	0.445	0.459	0.440
298	10/15/2018 12:35	0.439	0.450	0.439
299	10/15/2018 12:36	0.442	0.453	0.440
300	10/15/2018 12:37	0.440	0.457	0.435
301	10/15/2018 12:38	0.436	0.449	0.431
302	10/15/2018 12:39	0.434	0.443	0.432
303	10/15/2018 12:40	0.443	0.460	0.460
304	10/15/2018 12:41	0.441	0.462	0.441
305	10/15/2018 12:42	0.435	0.446	0.431
306	10/15/2018 12:43	0.433	0.443	0.441
307	10/15/2018 12:44	0.439	0.453	0.442
308	10/15/2018 12:45	0.438	0.444	0.434
309	10/15/2018 12:46	0.436	0.451	0.442
310	10/15/2018 12:47	0.443	0.458	0.430
311	10/15/2018 12:48	0.442	0.456	0.445
312	10/15/2018 12:49	0.446	0.457	0.446
313	10/15/2018 12:50	0.446	0.459	0.440
314	10/15/2018 12:51	0.440	0.449	0.434
315	10/15/2018 12:52	0.445	0.460	0.446
316	10/15/2018 12:53	0.441	0.462	0.438
317	10/15/2018 12:54	0.446	0.463	0.462
318	10/15/2018 12:55	0.534	0.671	0.483
319	10/15/2018 12:56	0.485	0.533	0.462
320	10/15/2018 12:57	0.462	0.482	0.465
321	10/15/2018 12:58	0.454	0.463	0.448
322	10/15/2018 12:59	0.462	0.492	0.492
323	10/15/2018 13:00	0.470	0.501	0.474
324	10/15/2018 13:01	0.458	0.473	0.450
325	10/15/2018 13:02	0.463	0.472	0.455
326	10/15/2018 13:03	0.456	0.475	0.472
327	10/15/2018 13:04	0.466	0.478	0.469
328	10/15/2018 13:05	0.457	0.472	0.467
329	10/15/2018 13:06	0.460	0.478	0.455
330	10/15/2018 13:07	0.451	0.463	0.457
331	10/15/2018 13:08	0.450	0.462	0.451
332	10/15/2018 13:09	0.456	0.476	0.454
333	10/15/2018 13:10	0.449	0.466	0.443
334	10/15/2018 13:11	0.443	0.452	0.436

335	10/15/2018 13:12	0.453	0.485	0.446
336	10/15/2018 13:13	0.454	0.466	0.450
337	10/15/2018 13:14	0.446	0.459	0.459
338	10/15/2018 13:15	0.445	0.467	0.431
339	10/15/2018 13:16	0.444	0.461	0.446
340	10/15/2018 13:17	0.446	0.457	0.439
341	10/15/2018 13:18	0.455	0.529	0.445
342	10/15/2018 13:19	0.449	0.473	0.439
343	10/15/2018 13:20	0.444	0.461	0.433
344	10/15/2018 13:21	0.451	0.470	0.461
345	10/15/2018 13:22	0.450	0.477	0.437
346	10/15/2018 13:23	0.441	0.465	0.427
347	10/15/2018 13:24	0.435	0.467	0.427
348	10/15/2018 13:25	0.438	0.459	0.443
349	10/15/2018 13:26	0.443	0.483	0.442
350	10/15/2018 13:27	0.456	0.530	0.470
351	10/15/2018 13:28	0.448	0.473	0.444
352	10/15/2018 13:29	0.449	0.511	0.439
353	10/15/2018 13:30	0.453	0.485	0.485
354	10/15/2018 13:31	0.442	0.483	0.448
355	10/15/2018 13:32	0.430	0.454	0.421
356	10/15/2018 13:33	0.421	0.438	0.415
357	10/15/2018 13:34	0.420	0.437	0.423
358	10/15/2018 13:35	0.419	0.431	0.418
359	10/15/2018 13:36	0.422	0.435	0.425
360	10/15/2018 13:37	0.431	0.445	0.434
361	10/15/2018 13:38	0.424	0.441	0.417
362	10/15/2018 13:39	0.424	0.436	0.426
363	10/15/2018 13:40	0.423	0.439	0.439
364	10/15/2018 13:41	0.427	0.442	0.420
365	10/15/2018 13:42	0.416	0.427	0.419
366	10/15/2018 13:43	0.417	0.428	0.414
367	10/15/2018 13:44	0.416	0.433	0.414
368	10/15/2018 13:45	0.425	0.448	0.415
369	10/15/2018 13:46	0.410	0.420	0.406
370	10/15/2018 13:47	0.413	0.423	0.418
371	10/15/2018 13:48	0.416	0.422	0.413
372	10/15/2018 13:49	0.413	0.424	0.417
373	10/15/2018 13:50	0.418	0.432	0.412
374	10/15/2018 13:51	0.414	0.439	0.397
375	10/15/2018 13:52	0.402	0.418	0.402
376	10/15/2018 13:53	0.407	0.417	0.405
377	10/15/2018 13:54	0.399	0.414	0.393
378	10/15/2018 13:55	0.398	0.408	0.400
379	10/15/2018 13:56	0.394	0.406	0.388
380	10/15/2018 13:57	0.398	0.411	0.395
381	10/15/2018 13:58	0.402	0.426	0.416

382	10/15/2018 13:59	0.403	0.424	0.417
383	10/15/2018 14:00	0.399	0.421	0.404
384	10/15/2018 14:01	0.401	0.414	0.382
385	10/15/2018 14:02	0.398	0.425	0.425
386	10/15/2018 14:03	0.411	0.428	0.403
387	10/15/2018 14:04	0.403	0.414	0.404
388	10/15/2018 14:05	0.421	0.456	0.414
389	10/15/2018 14:06	0.406	0.428	0.398
390	10/15/2018 14:07	0.421	0.439	0.426
391	10/15/2018 14:08	0.403	0.423	0.412
392	10/15/2018 14:09	0.394	0.409	0.385
393	10/15/2018 14:10	0.394	0.406	0.403
394	10/15/2018 14:11	0.393	0.436	0.436
395	10/15/2018 14:12	0.393	0.426	0.407
396	10/15/2018 14:13	0.390	0.416	0.371
397	10/15/2018 14:14	0.375	0.388	0.360
398	10/15/2018 14:15	0.368	0.381	0.369
399	10/15/2018 14:16	0.370	0.377	0.367
400	10/15/2018 14:17	0.369	0.386	0.373
401	10/15/2018 14:18	0.369	0.385	0.358
402	10/15/2018 14:19	0.364	0.385	0.355
403	10/15/2018 14:20	0.362	0.382	0.359
404	10/15/2018 14:21	0.358	0.374	0.374
405	10/15/2018 14:22	0.366	0.393	0.361
406	10/15/2018 14:23	0.356	0.365	0.352
407	10/15/2018 14:24	0.349	0.360	0.358
408	10/15/2018 14:25	0.345	0.358	0.347
409	10/15/2018 14:26	0.344	0.356	0.339
410	10/15/2018 14:27	0.342	0.353	0.336
411	10/15/2018 14:28	0.344	0.356	0.346
412	10/15/2018 14:29	0.353	0.371	0.350
413	10/15/2018 14:30	0.347	0.353	0.345
414	10/15/2018 14:31	0.342	0.353	0.335
415	10/15/2018 14:32	0.338	0.346	0.344
416	10/15/2018 14:33	0.340	0.351	0.338
417	10/15/2018 14:34	0.338	0.345	0.339
418	10/15/2018 14:35	0.332	0.347	0.336
419	10/15/2018 14:36	0.331	0.339	0.331
420	10/15/2018 14:37	0.334	0.347	0.344
421	10/15/2018 14:38	0.331	0.340	0.331
422	10/15/2018 14:39	0.326	0.333	0.323
423	10/15/2018 14:40	0.335	0.368	0.336
424	10/15/2018 14:41	0.328	0.340	0.335
425	10/15/2018 14:42	0.327	0.336	0.330
426	10/15/2018 14:43	0.330	0.357	0.333
427	10/15/2018 14:44	0.337	0.362	0.327
428	10/15/2018 14:45	0.334	0.357	0.327



429	10/15/2018 14:46	0.324	0.381	0.319
430	10/15/2018 14:47	0.325	0.339	0.337
431	10/15/2018 14:48	0.321	0.347	0.322
432	10/15/2018 14:49	0.326	0.352	0.318
433	10/15/2018 14:50	0.329	0.382	0.315
434	10/15/2018 14:51	0.329	0.398	0.319
435	10/15/2018 14:52	0.319	0.359	0.319
436	10/15/2018 14:53	0.329	0.354	0.331
437	10/15/2018 14:54	0.315	0.329	0.313
438	10/15/2018 14:55	0.311	0.322	0.300
439	10/15/2018 14:56	0.313	0.332	0.316
440	10/15/2018 14:57	0.315	0.329	0.311
441	10/15/2018 14:58	0.322	0.360	0.316
442	10/15/2018 14:59	0.322	0.343	0.329
443	10/15/2018 15:00	0.319	0.330	0.312
444	10/15/2018 15:01	0.313	0.336	0.300
445	10/15/2018 15:02	0.312	0.324	0.308
446	10/15/2018 15:03	0.321	0.352	0.325
447	10/15/2018 15:04	0.316	0.323	0.310
448	10/15/2018 15:05	0.308	0.316	0.303
449	10/15/2018 15:06	0.304	0.311	0.300
450	10/15/2018 15:07	0.303	0.314	0.305
451	10/15/2018 15:08	0.311	0.317	0.312
452	10/15/2018 15:09	0.310	0.320	0.303
453	10/15/2018 15:10	0.310	0.321	0.302
454	10/15/2018 15:11	0.314	0.334	0.307
455	10/15/2018 15:12	0.307	0.319	0.313
456	10/15/2018 15:13	0.309	0.326	0.316
457	10/15/2018 15:14	0.302	0.315	0.293
458	10/15/2018 15:15	0.308	0.326	0.324
459	10/15/2018 15:16	0.332	0.387	0.304
460	10/15/2018 15:17	0.322	0.341	0.331
461	10/15/2018 15:18	0.320	0.355	0.304
462	10/15/2018 15:19	0.307	0.317	0.304
463	10/15/2018 15:20	0.303	0.309	0.303
464	10/15/2018 15:21	0.300	0.304	0.304
465	10/15/2018 15:22	0.298	0.306	0.299
466	10/15/2018 15:23	0.295	0.305	0.294
467	10/15/2018 15:24	0.300	0.309	0.295
468	10/15/2018 15:25	0.298	0.304	0.297
469	10/15/2018 15:26	0.304	0.315	0.313
470	10/15/2018 15:27	0.311	0.325	0.318
471	10/15/2018 15:28	0.317	0.372	0.325
472	10/15/2018 15:29	0.307	0.325	0.301
473	10/15/2018 15:30	0.301	0.309	0.298
474	10/15/2018 15:31	0.303	0.310	0.306
475	10/15/2018 15:32	0.302	0.309	0.307

476	10/15/2018 15:33	0.304	0.316	0.304
477	10/15/2018 15:34	0.305	0.314	0.314
478	10/15/2018 15:35	0.309	0.315	0.313
479	10/15/2018 15:36	0.306	0.315	0.303
480	10/15/2018 15:37	0.302	0.311	0.307
481	10/15/2018 15:38	0.304	0.311	0.305
482	10/15/2018 15:39	0.305	0.317	0.302
483	10/15/2018 15:40	0.302	0.310	0.303
484	10/15/2018 15:41	0.314	0.324	0.315
485	10/15/2018 15:42	0.308	0.316	0.314
486	10/15/2018 15:43	0.311	0.318	0.318
487	10/15/2018 15:44	0.319	0.358	0.317
488	10/15/2018 15:45	0.316	0.325	0.315
489	10/15/2018 15:46	0.316	0.325	0.321

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18/10/16 08:14

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Summary

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Unit Name           MiniRAE 3000(PGM-7320)  
Unit SN             592-910739  
Unit Firmware Ver   V1.20B  
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Running Mode        Hygiene Mode  
Measure Type        Avg; Max; Real  
Datalog Mode        Continuous  
Datalog Type        Auto  
Diagnostic Mode     No  
Stop Reason         Power Down  
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Site ID             12345678  
User ID             12345678  
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Begin               10/16/2018 8:15  
End                  10/16/2018 15:07  
Sample Period(s)    60  
Number of Records   413  
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Sensor              VOC(ppm)  
Span                100  
Span 2              N/A  
Low Alarm           50  
High Alarm          100  
Over Alarm          15000  
STEL Alarm          25  
TWA Alarm           10  
Measurement Gas     Isobutylene  
Calibration Time    10/16/2018 8:06  
Peak                0.693  
Min                 0.000  
Average             0.142  
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Datalog

Index	Date/Time	VOC(ppm) (Avg)	VOC(ppm) (Max)	VOC(ppm) (Real)
1	10/16/2018 8:15	0.003	0.017	0.017
2	10/16/2018 8:16	0.009	0.027	0.000
3	10/16/2018 8:17	0.002	0.015	0.000
4	10/16/2018 8:18	0.002	0.015	0.015
5	10/16/2018 8:19	0.008	0.020	0.008

6	10/16/2018 8:20	0.004	0.016	0.004
7	10/16/2018 8:21	0.012	0.029	0.025
8	10/16/2018 8:22	0.022	0.029	0.014
9	10/16/2018 8:23	0.033	0.484	0.484
10	10/16/2018 8:24	0.122	0.693	0.042
11	10/16/2018 8:25	0.042	0.047	0.039
12	10/16/2018 8:26	0.050	0.073	0.057
13	10/16/2018 8:27	0.050	0.058	0.038
14	10/16/2018 8:28	0.044	0.055	0.047
15	10/16/2018 8:29	0.045	0.050	0.038
16	10/16/2018 8:30	0.040	0.049	0.048
17	10/16/2018 8:31	0.039	0.051	0.037
18	10/16/2018 8:32	0.042	0.056	0.037
19	10/16/2018 8:33	0.039	0.049	0.047
20	10/16/2018 8:34	0.044	0.055	0.036
21	10/16/2018 8:35	0.037	0.049	0.039
22	10/16/2018 8:36	0.039	0.045	0.037
23	10/16/2018 8:37	0.078	0.171	0.097
24	10/16/2018 8:38	0.065	0.095	0.061
25	10/16/2018 8:39	0.036	0.058	0.030
26	10/16/2018 8:40	0.037	0.047	0.043
27	10/16/2018 8:41	0.044	0.054	0.035
28	10/16/2018 8:42	0.048	0.087	0.038
29	10/16/2018 8:43	0.031	0.038	0.030
30	10/16/2018 8:44	0.034	0.040	0.030
31	10/16/2018 8:45	0.036	0.062	0.053
32	10/16/2018 8:46	0.052	0.080	0.037
33	10/16/2018 8:47	0.033	0.048	0.027
34	10/16/2018 8:48	0.023	0.027	0.026
35	10/16/2018 8:49	0.024	0.031	0.020
36	10/16/2018 8:50	0.022	0.034	0.018
37	10/16/2018 8:51	0.023	0.039	0.023
38	10/16/2018 8:52	0.030	0.053	0.024
39	10/16/2018 8:53	0.040	0.084	0.022
40	10/16/2018 8:54	0.043	0.077	0.027
41	10/16/2018 8:55	0.037	0.062	0.036
42	10/16/2018 8:56	0.035	0.062	0.056
43	10/16/2018 8:57	0.073	0.144	0.076
44	10/16/2018 8:58	0.038	0.073	0.034
45	10/16/2018 8:59	0.028	0.035	0.031
46	10/16/2018 9:00	0.029	0.038	0.038
47	10/16/2018 9:01	0.039	0.057	0.033
48	10/16/2018 9:02	0.045	0.105	0.083
49	10/16/2018 9:03	0.046	0.098	0.034
50	10/16/2018 9:04	0.037	0.055	0.042
51	10/16/2018 9:05	0.044	0.071	0.071
52	10/16/2018 9:06	0.048	0.096	0.039

53	10/16/2018 9:07	0.056	0.094	0.073
54	10/16/2018 9:08	0.056	0.078	0.047
55	10/16/2018 9:09	0.052	0.065	0.047
56	10/16/2018 9:10	0.042	0.050	0.038
57	10/16/2018 9:11	0.047	0.073	0.057
58	10/16/2018 9:12	0.056	0.063	0.061
59	10/16/2018 9:13	0.055	0.065	0.056
60	10/16/2018 9:14	0.055	0.061	0.055
61	10/16/2018 9:15	0.054	0.060	0.057
62	10/16/2018 9:16	0.058	0.072	0.051
63	10/16/2018 9:17	0.054	0.063	0.063
64	10/16/2018 9:18	0.061	0.068	0.067
65	10/16/2018 9:19	0.064	0.069	0.067
66	10/16/2018 9:20	0.068	0.073	0.066
67	10/16/2018 9:21	0.069	0.075	0.065
68	10/16/2018 9:22	0.072	0.082	0.072
69	10/16/2018 9:23	0.072	0.080	0.077
70	10/16/2018 9:24	0.074	0.081	0.078
71	10/16/2018 9:25	0.075	0.084	0.084
72	10/16/2018 9:26	0.079	0.086	0.078
73	10/16/2018 9:27	0.077	0.082	0.076
74	10/16/2018 9:28	0.080	0.086	0.078
75	10/16/2018 9:29	0.081	0.089	0.088
76	10/16/2018 9:30	0.083	0.088	0.083
77	10/16/2018 9:31	0.088	0.093	0.089
78	10/16/2018 9:32	0.094	0.113	0.104
79	10/16/2018 9:33	0.093	0.105	0.093
80	10/16/2018 9:34	0.094	0.102	0.091
81	10/16/2018 9:35	0.092	0.096	0.087
82	10/16/2018 9:36	0.095	0.102	0.100
83	10/16/2018 9:37	0.098	0.103	0.098
84	10/16/2018 9:38	0.097	0.102	0.095
85	10/16/2018 9:39	0.101	0.110	0.110
86	10/16/2018 9:40	0.112	0.116	0.111
87	10/16/2018 9:41	0.110	0.116	0.113
88	10/16/2018 9:42	0.117	0.128	0.117
89	10/16/2018 9:43	0.119	0.127	0.120
90	10/16/2018 9:44	0.122	0.171	0.121
91	10/16/2018 9:45	0.119	0.126	0.124
92	10/16/2018 9:46	0.120	0.126	0.118
93	10/16/2018 9:47	0.114	0.120	0.119
94	10/16/2018 9:48	0.114	0.120	0.115
95	10/16/2018 9:49	0.116	0.123	0.119
96	10/16/2018 9:50	0.117	0.122	0.116
97	10/16/2018 9:51	0.122	0.134	0.117
98	10/16/2018 9:52	0.121	0.126	0.117
99	10/16/2018 9:53	0.121	0.129	0.128

100	10/16/2018 9:54	0.128	0.155	0.120
101	10/16/2018 9:55	0.122	0.126	0.122
102	10/16/2018 9:56	0.125	0.133	0.130
103	10/16/2018 9:57	0.132	0.139	0.131
104	10/16/2018 9:58	0.132	0.136	0.128
105	10/16/2018 9:59	0.133	0.140	0.135
106	10/16/2018 10:00	0.135	0.146	0.134
107	10/16/2018 10:01	0.133	0.138	0.137
108	10/16/2018 10:02	0.136	0.142	0.137
109	10/16/2018 10:03	0.144	0.153	0.149
110	10/16/2018 10:04	0.147	0.153	0.146
111	10/16/2018 10:05	0.139	0.148	0.134
112	10/16/2018 10:06	0.140	0.148	0.144
113	10/16/2018 10:07	0.145	0.160	0.140
114	10/16/2018 10:08	0.142	0.150	0.140
115	10/16/2018 10:09	0.141	0.147	0.140
116	10/16/2018 10:10	0.148	0.169	0.147
117	10/16/2018 10:11	0.150	0.194	0.170
118	10/16/2018 10:12	0.162	0.216	0.149
119	10/16/2018 10:13	0.149	0.151	0.149
120	10/16/2018 10:14	0.146	0.153	0.149
121	10/16/2018 10:15	0.145	0.150	0.143
122	10/16/2018 10:16	0.145	0.152	0.147
123	10/16/2018 10:17	0.150	0.157	0.152
124	10/16/2018 10:18	0.150	0.155	0.153
125	10/16/2018 10:19	0.153	0.157	0.151
126	10/16/2018 10:20	0.155	0.159	0.157
127	10/16/2018 10:21	0.157	0.162	0.157
128	10/16/2018 10:22	0.158	0.164	0.157
129	10/16/2018 10:23	0.157	0.162	0.162
130	10/16/2018 10:24	0.161	0.165	0.159
131	10/16/2018 10:25	0.160	0.164	0.162
132	10/16/2018 10:26	0.164	0.170	0.169
133	10/16/2018 10:27	0.164	0.169	0.163
134	10/16/2018 10:28	0.164	0.171	0.163
135	10/16/2018 10:29	0.168	0.173	0.173
136	10/16/2018 10:30	0.170	0.176	0.168
137	10/16/2018 10:31	0.169	0.175	0.169
138	10/16/2018 10:32	0.170	0.175	0.174
139	10/16/2018 10:33	0.173	0.178	0.169
140	10/16/2018 10:34	0.173	0.179	0.170
141	10/16/2018 10:35	0.171	0.176	0.171
142	10/16/2018 10:36	0.175	0.182	0.173
143	10/16/2018 10:37	0.166	0.174	0.167
144	10/16/2018 10:38	0.163	0.168	0.158
145	10/16/2018 10:39	0.162	0.167	0.164
146	10/16/2018 10:40	0.161	0.166	0.164

147	10/16/2018 10:41	0.161	0.165	0.162
148	10/16/2018 10:42	0.162	0.166	0.160
149	10/16/2018 10:43	0.157	0.162	0.155
150	10/16/2018 10:44	0.153	0.158	0.155
151	10/16/2018 10:45	0.156	0.160	0.157
152	10/16/2018 10:46	0.154	0.164	0.149
153	10/16/2018 10:47	0.153	0.162	0.153
154	10/16/2018 10:48	0.154	0.160	0.157
155	10/16/2018 10:49	0.161	0.178	0.150
156	10/16/2018 10:50	0.148	0.155	0.148
157	10/16/2018 10:51	0.145	0.150	0.147
158	10/16/2018 10:52	0.147	0.154	0.147
159	10/16/2018 10:53	0.147	0.152	0.146
160	10/16/2018 10:54	0.145	0.149	0.144
161	10/16/2018 10:55	0.144	0.151	0.148
162	10/16/2018 10:56	0.146	0.152	0.145
163	10/16/2018 10:57	0.142	0.149	0.139
164	10/16/2018 10:58	0.143	0.149	0.143
165	10/16/2018 10:59	0.145	0.151	0.145
166	10/16/2018 11:00	0.144	0.157	0.157
167	10/16/2018 11:01	0.148	0.167	0.143
168	10/16/2018 11:02	0.143	0.150	0.146
169	10/16/2018 11:03	0.144	0.157	0.149
170	10/16/2018 11:04	0.145	0.157	0.137
171	10/16/2018 11:05	0.135	0.141	0.133
172	10/16/2018 11:06	0.137	0.145	0.134
173	10/16/2018 11:07	0.137	0.144	0.135
174	10/16/2018 11:08	0.131	0.141	0.128
175	10/16/2018 11:09	0.131	0.139	0.136
176	10/16/2018 11:10	0.131	0.135	0.132
177	10/16/2018 11:11	0.134	0.141	0.140
178	10/16/2018 11:12	0.146	0.175	0.140
179	10/16/2018 11:13	0.139	0.145	0.141
180	10/16/2018 11:14	0.146	0.155	0.146
181	10/16/2018 11:15	0.140	0.146	0.137
182	10/16/2018 11:16	0.140	0.147	0.142
183	10/16/2018 11:17	0.138	0.146	0.141
184	10/16/2018 11:18	0.138	0.144	0.141
185	10/16/2018 11:19	0.138	0.143	0.136
186	10/16/2018 11:20	0.139	0.145	0.142
187	10/16/2018 11:21	0.136	0.143	0.134
188	10/16/2018 11:22	0.143	0.152	0.143
189	10/16/2018 11:23	0.137	0.145	0.131
190	10/16/2018 11:24	0.136	0.146	0.133
191	10/16/2018 11:25	0.137	0.143	0.135
192	10/16/2018 11:26	0.136	0.139	0.136
193	10/16/2018 11:27	0.134	0.137	0.131

194	10/16/2018 11:28	0.133	0.139	0.135
195	10/16/2018 11:29	0.135	0.139	0.131
196	10/16/2018 11:30	0.136	0.140	0.136
197	10/16/2018 11:31	0.139	0.151	0.137
198	10/16/2018 11:32	0.132	0.139	0.130
199	10/16/2018 11:33	0.129	0.132	0.132
200	10/16/2018 11:34	0.130	0.137	0.131
201	10/16/2018 11:35	0.130	0.134	0.130
202	10/16/2018 11:36	0.135	0.147	0.141
203	10/16/2018 11:37	0.134	0.141	0.130
204	10/16/2018 11:38	0.129	0.139	0.123
205	10/16/2018 11:39	0.124	0.129	0.122
206	10/16/2018 11:40	0.125	0.130	0.128
207	10/16/2018 11:41	0.129	0.157	0.131
208	10/16/2018 11:42	0.129	0.134	0.128
209	10/16/2018 11:43	0.127	0.131	0.128
210	10/16/2018 11:44	0.123	0.129	0.128
211	10/16/2018 11:45	0.126	0.129	0.128
212	10/16/2018 11:46	0.129	0.135	0.135
213	10/16/2018 11:47	0.132	0.139	0.134
214	10/16/2018 11:48	0.134	0.140	0.138
215	10/16/2018 11:49	0.137	0.141	0.137
216	10/16/2018 11:50	0.138	0.144	0.135
217	10/16/2018 11:51	0.130	0.136	0.129
218	10/16/2018 11:52	0.134	0.146	0.136
219	10/16/2018 11:53	0.134	0.140	0.132
220	10/16/2018 11:54	0.138	0.143	0.136
221	10/16/2018 11:55	0.137	0.143	0.137
222	10/16/2018 11:56	0.144	0.149	0.146
223	10/16/2018 11:57	0.143	0.155	0.144
224	10/16/2018 11:58	0.144	0.151	0.149
225	10/16/2018 11:59	0.150	0.157	0.154
226	10/16/2018 12:00	0.155	0.165	0.159
227	10/16/2018 12:01	0.159	0.162	0.161
228	10/16/2018 12:02	0.157	0.162	0.158
229	10/16/2018 12:03	0.160	0.170	0.156
230	10/16/2018 12:04	0.159	0.164	0.162
231	10/16/2018 12:05	0.159	0.165	0.155
232	10/16/2018 12:06	0.160	0.172	0.155
233	10/16/2018 12:07	0.160	0.177	0.163
234	10/16/2018 12:08	0.165	0.175	0.154
235	10/16/2018 12:09	0.153	0.157	0.148
236	10/16/2018 12:10	0.155	0.165	0.160
237	10/16/2018 12:11	0.157	0.162	0.160
238	10/16/2018 12:12	0.164	0.178	0.167
239	10/16/2018 12:13	0.167	0.172	0.167
240	10/16/2018 12:14	0.173	0.205	0.175



241	10/16/2018 12:15	0.174	0.178	0.176
242	10/16/2018 12:16	0.181	0.193	0.193
243	10/16/2018 12:17	0.190	0.197	0.193
244	10/16/2018 12:18	0.197	0.203	0.203
245	10/16/2018 12:19	0.198	0.203	0.198
246	10/16/2018 12:20	0.204	0.209	0.201
247	10/16/2018 12:21	0.205	0.211	0.211
248	10/16/2018 12:22	0.209	0.214	0.213
249	10/16/2018 12:23	0.213	0.217	0.215
250	10/16/2018 12:24	0.220	0.225	0.220
251	10/16/2018 12:25	0.220	0.225	0.221
252	10/16/2018 12:26	0.221	0.225	0.222
253	10/16/2018 12:27	0.223	0.229	0.223
254	10/16/2018 12:28	0.224	0.230	0.222
255	10/16/2018 12:29	0.228	0.234	0.233
256	10/16/2018 12:30	0.231	0.235	0.231
257	10/16/2018 12:31	0.231	0.238	0.232
258	10/16/2018 12:32	0.230	0.237	0.236
259	10/16/2018 12:33	0.231	0.238	0.230
260	10/16/2018 12:34	0.228	0.232	0.230
261	10/16/2018 12:35	0.232	0.240	0.230
262	10/16/2018 12:36	0.233	0.238	0.237
263	10/16/2018 12:37	0.229	0.239	0.224
264	10/16/2018 12:38	0.221	0.226	0.221
265	10/16/2018 12:39	0.223	0.231	0.223
266	10/16/2018 12:40	0.225	0.230	0.225
267	10/16/2018 12:41	0.228	0.235	0.227
268	10/16/2018 12:42	0.232	0.237	0.228
269	10/16/2018 12:43	0.228	0.235	0.229
270	10/16/2018 12:44	0.225	0.235	0.223
271	10/16/2018 12:45	0.226	0.236	0.222
272	10/16/2018 12:46	0.227	0.254	0.229
273	10/16/2018 12:47	0.227	0.237	0.232
274	10/16/2018 12:48	0.227	0.232	0.228
275	10/16/2018 12:49	0.230	0.242	0.231
276	10/16/2018 12:50	0.232	0.237	0.232
277	10/16/2018 12:51	0.236	0.243	0.234
278	10/16/2018 12:52	0.235	0.241	0.234
279	10/16/2018 12:53	0.233	0.237	0.235
280	10/16/2018 12:54	0.236	0.239	0.237
281	10/16/2018 12:55	0.235	0.241	0.241
282	10/16/2018 12:56	0.235	0.242	0.232
283	10/16/2018 12:57	0.232	0.243	0.230
284	10/16/2018 12:58	0.225	0.230	0.223
285	10/16/2018 12:59	0.222	0.227	0.218
286	10/16/2018 13:00	0.220	0.225	0.221
287	10/16/2018 13:01	0.218	0.222	0.217

288	10/16/2018 13:02	0.215	0.219	0.217
289	10/16/2018 13:03	0.218	0.223	0.219
290	10/16/2018 13:04	0.220	0.224	0.222
291	10/16/2018 13:05	0.218	0.223	0.217
292	10/16/2018 13:06	0.209	0.216	0.205
293	10/16/2018 13:07	0.207	0.229	0.204
294	10/16/2018 13:08	0.209	0.215	0.207
295	10/16/2018 13:09	0.210	0.216	0.211
296	10/16/2018 13:10	0.209	0.219	0.200
297	10/16/2018 13:11	0.211	0.226	0.209
298	10/16/2018 13:12	0.199	0.208	0.197
299	10/16/2018 13:13	0.199	0.204	0.197
300	10/16/2018 13:14	0.193	0.198	0.196
301	10/16/2018 13:15	0.194	0.199	0.192
302	10/16/2018 13:16	0.191	0.197	0.187
303	10/16/2018 13:17	0.188	0.193	0.187
304	10/16/2018 13:18	0.185	0.190	0.183
305	10/16/2018 13:19	0.180	0.186	0.178
306	10/16/2018 13:20	0.179	0.187	0.186
307	10/16/2018 13:21	0.183	0.186	0.185
308	10/16/2018 13:22	0.187	0.193	0.184
309	10/16/2018 13:23	0.184	0.188	0.180
310	10/16/2018 13:24	0.182	0.186	0.183
311	10/16/2018 13:25	0.184	0.193	0.185
312	10/16/2018 13:26	0.179	0.185	0.185
313	10/16/2018 13:27	0.185	0.192	0.187
314	10/16/2018 13:28	0.188	0.194	0.190
315	10/16/2018 13:29	0.190	0.194	0.190
316	10/16/2018 13:30	0.189	0.193	0.190
317	10/16/2018 13:31	0.195	0.211	0.202
318	10/16/2018 13:32	0.189	0.204	0.189
319	10/16/2018 13:33	0.205	0.273	0.190
320	10/16/2018 13:34	0.185	0.193	0.179
321	10/16/2018 13:35	0.179	0.182	0.180
322	10/16/2018 13:36	0.183	0.188	0.185
323	10/16/2018 13:37	0.183	0.187	0.185
324	10/16/2018 13:38	0.186	0.208	0.181
325	10/16/2018 13:39	0.181	0.187	0.181
326	10/16/2018 13:40	0.178	0.185	0.185
327	10/16/2018 13:41	0.181	0.186	0.180
328	10/16/2018 13:42	0.186	0.191	0.184
329	10/16/2018 13:43	0.183	0.188	0.185
330	10/16/2018 13:44	0.186	0.191	0.182
331	10/16/2018 13:45	0.188	0.193	0.190
332	10/16/2018 13:46	0.192	0.203	0.191
333	10/16/2018 13:47	0.192	0.196	0.196
334	10/16/2018 13:48	0.192	0.197	0.192

335	10/16/2018 13:49	0.197	0.284	0.192
336	10/16/2018 13:50	0.193	0.196	0.193
337	10/16/2018 13:51	0.197	0.209	0.194
338	10/16/2018 13:52	0.193	0.204	0.187
339	10/16/2018 13:53	0.184	0.189	0.184
340	10/16/2018 13:54	0.183	0.189	0.184
341	10/16/2018 13:55	0.188	0.194	0.184
342	10/16/2018 13:56	0.187	0.198	0.185
343	10/16/2018 13:57	0.182	0.189	0.183
344	10/16/2018 13:58	0.184	0.188	0.184
345	10/16/2018 13:59	0.187	0.194	0.191
346	10/16/2018 14:00	0.195	0.201	0.196
347	10/16/2018 14:01	0.194	0.211	0.190
348	10/16/2018 14:02	0.188	0.193	0.191
349	10/16/2018 14:03	0.189	0.194	0.192
350	10/16/2018 14:04	0.191	0.198	0.198
351	10/16/2018 14:05	0.191	0.201	0.183
352	10/16/2018 14:06	0.187	0.194	0.194
353	10/16/2018 14:07	0.187	0.195	0.179
354	10/16/2018 14:08	0.178	0.183	0.179
355	10/16/2018 14:09	0.176	0.182	0.175
356	10/16/2018 14:10	0.175	0.182	0.170
357	10/16/2018 14:11	0.172	0.176	0.171
358	10/16/2018 14:12	0.173	0.180	0.175
359	10/16/2018 14:13	0.176	0.194	0.191
360	10/16/2018 14:14	0.170	0.187	0.165
361	10/16/2018 14:15	0.163	0.168	0.164
362	10/16/2018 14:16	0.160	0.164	0.163
363	10/16/2018 14:17	0.163	0.169	0.166
364	10/16/2018 14:18	0.162	0.166	0.165
365	10/16/2018 14:19	0.162	0.168	0.164
366	10/16/2018 14:20	0.164	0.170	0.164
367	10/16/2018 14:21	0.162	0.167	0.162
368	10/16/2018 14:22	0.161	0.165	0.162
369	10/16/2018 14:23	0.160	0.164	0.164
370	10/16/2018 14:24	0.159	0.168	0.158
371	10/16/2018 14:25	0.158	0.163	0.155
372	10/16/2018 14:26	0.157	0.163	0.158
373	10/16/2018 14:27	0.155	0.161	0.157
374	10/16/2018 14:28	0.153	0.159	0.153
375	10/16/2018 14:29	0.149	0.154	0.148
376	10/16/2018 14:30	0.146	0.151	0.147
377	10/16/2018 14:31	0.146	0.152	0.147
378	10/16/2018 14:32	0.149	0.152	0.150
379	10/16/2018 14:33	0.148	0.157	0.147
380	10/16/2018 14:34	0.147	0.152	0.150
381	10/16/2018 14:35	0.148	0.153	0.148

382	10/16/2018 14:36	0.145	0.149	0.141
383	10/16/2018 14:37	0.144	0.172	0.146
384	10/16/2018 14:38	0.139	0.144	0.136
385	10/16/2018 14:39	0.140	0.146	0.146
386	10/16/2018 14:40	0.144	0.150	0.141
387	10/16/2018 14:41	0.140	0.144	0.143
388	10/16/2018 14:42	0.141	0.150	0.138
389	10/16/2018 14:43	0.140	0.144	0.139
390	10/16/2018 14:44	0.142	0.146	0.142
391	10/16/2018 14:45	0.140	0.145	0.139
392	10/16/2018 14:46	0.137	0.146	0.145
393	10/16/2018 14:47	0.142	0.151	0.142
394	10/16/2018 14:48	0.141	0.146	0.142
395	10/16/2018 14:49	0.138	0.143	0.139
396	10/16/2018 14:50	0.143	0.147	0.147
397	10/16/2018 14:51	0.144	0.152	0.142
398	10/16/2018 14:52	0.140	0.146	0.142
399	10/16/2018 14:53	0.141	0.146	0.135
400	10/16/2018 14:54	0.137	0.141	0.138
401	10/16/2018 14:55	0.138	0.143	0.139
402	10/16/2018 14:56	0.137	0.142	0.136
403	10/16/2018 14:57	0.137	0.141	0.138
404	10/16/2018 14:58	0.141	0.149	0.138
405	10/16/2018 14:59	0.136	0.140	0.137
406	10/16/2018 15:00	0.140	0.150	0.139
407	10/16/2018 15:01	0.141	0.149	0.147
408	10/16/2018 15:02	0.142	0.147	0.144
409	10/16/2018 15:03	0.141	0.147	0.143
410	10/16/2018 15:04	0.142	0.152	0.141
411	10/16/2018 15:05	0.138	0.142	0.138
412	10/16/2018 15:06	0.134	0.138	0.134
413	10/16/2018 15:07	0.136	0.140	0.133

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18/12/10 08:53

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Summary

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Unit Name           MiniRAE 3000(PGM-7320)  
Unit SN             592-912830  
Unit Firmware Ver   V1.20A  
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Running Mode        Hygiene Mode  
Measure Type        Avg; Max; Real  
Datalog Mode        Continuous  
Datalog Type        Auto  
Diagnostic Mode     No  
Stop Reason         Power Down  
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Site ID             12345678  
User ID             12345678  
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Begin               12/10/2018 8:53  
End                 12/10/2018 14:44  
Sample Period(s)    60  
Number of Records   351  
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Sensor              VOC(ppm)  
Span                100  
Span 2              N/A  
Low Alarm            50  
High Alarm           100  
Over Alarm           15000  
STEL Alarm           25  
TWA Alarm            10  
Measurement Gas     Isobutylene  
Calibration Time    12/10/2018 8:47  
Peak                0.278  
Min                 0.010  
Average             0.164  
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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	12/10/2018 8:54	0.011	0.035	0.010
2	12/10/2018 8:55	0.010	0.017	0.013
3	12/10/2018 8:56	0.019	0.023	0.018
4	12/10/2018 8:57	0.017	0.020	0.018
5	12/10/2018 8:58	0.046	0.096	0.061

6	12/10/2018 8:59	0.052	0.083	0.042
7	12/10/2018 9:00	0.030	0.041	0.022
8	12/10/2018 9:01	0.024	0.028	0.024
9	12/10/2018 9:02	0.028	0.042	0.029
10	12/10/2018 9:03	0.046	0.087	0.033
11	12/10/2018 9:04	0.034	0.037	0.036
12	12/10/2018 9:05	0.040	0.046	0.046
13	12/10/2018 9:06	0.076	0.204	0.049
14	12/10/2018 9:07	0.046	0.049	0.047
15	12/10/2018 9:08	0.060	0.082	0.081
16	12/10/2018 9:09	0.059	0.077	0.054
17	12/10/2018 9:10	0.054	0.059	0.059
18	12/10/2018 9:11	0.062	0.081	0.058
19	12/10/2018 9:12	0.063	0.071	0.065
20	12/10/2018 9:13	0.066	0.072	0.064
21	12/10/2018 9:14	0.100	0.207	0.066
22	12/10/2018 9:15	0.064	0.069	0.066
23	12/10/2018 9:16	0.081	0.174	0.066
24	12/10/2018 9:17	0.071	0.082	0.074
25	12/10/2018 9:18	0.105	0.211	0.130
26	12/10/2018 9:19	0.099	0.145	0.082
27	12/10/2018 9:20	0.090	0.119	0.094
28	12/10/2018 9:21	0.080	0.102	0.077
29	12/10/2018 9:22	0.086	0.120	0.120
30	12/10/2018 9:23	0.107	0.151	0.095
31	12/10/2018 9:24	0.161	0.243	0.130
32	12/10/2018 9:25	0.095	0.147	0.099
33	12/10/2018 9:26	0.134	0.203	0.134
34	12/10/2018 9:27	0.109	0.153	0.153
35	12/10/2018 9:28	0.134	0.176	0.108
36	12/10/2018 9:29	0.112	0.155	0.105
37	12/10/2018 9:30	0.101	0.128	0.118
38	12/10/2018 9:31	0.107	0.127	0.090
39	12/10/2018 9:32	0.094	0.114	0.105
40	12/10/2018 9:33	0.110	0.123	0.108
41	12/10/2018 9:34	0.111	0.122	0.109
42	12/10/2018 9:35	0.113	0.117	0.112
43	12/10/2018 9:36	0.111	0.117	0.108
44	12/10/2018 9:37	0.114	0.119	0.119
45	12/10/2018 9:38	0.115	0.122	0.116
46	12/10/2018 9:39	0.119	0.124	0.123
47	12/10/2018 9:40	0.124	0.132	0.130
48	12/10/2018 9:41	0.129	0.139	0.131
49	12/10/2018 9:42	0.136	0.199	0.191
50	12/10/2018 9:43	0.188	0.253	0.154
51	12/10/2018 9:44	0.134	0.152	0.133
52	12/10/2018 9:45	0.135	0.139	0.133

53	12/10/2018 9:46	0.129	0.133	0.126
54	12/10/2018 9:47	0.127	0.134	0.124
55	12/10/2018 9:48	0.127	0.132	0.126
56	12/10/2018 9:49	0.132	0.143	0.137
57	12/10/2018 9:50	0.140	0.144	0.135
58	12/10/2018 9:51	0.132	0.137	0.133
59	12/10/2018 9:52	0.131	0.134	0.132
60	12/10/2018 9:53	0.131	0.136	0.130
61	12/10/2018 9:54	0.131	0.140	0.132
62	12/10/2018 9:55	0.132	0.139	0.132
63	12/10/2018 9:56	0.134	0.140	0.135
64	12/10/2018 9:57	0.134	0.139	0.133
65	12/10/2018 9:58	0.136	0.141	0.137
66	12/10/2018 9:59	0.138	0.146	0.139
67	12/10/2018 10:00	0.140	0.146	0.146
68	12/10/2018 10:01	0.140	0.150	0.142
69	12/10/2018 10:02	0.139	0.147	0.146
70	12/10/2018 10:03	0.148	0.157	0.148
71	12/10/2018 10:04	0.150	0.157	0.156
72	12/10/2018 10:05	0.156	0.161	0.153
73	12/10/2018 10:06	0.149	0.159	0.152
74	12/10/2018 10:07	0.150	0.158	0.158
75	12/10/2018 10:08	0.150	0.157	0.154
76	12/10/2018 10:09	0.153	0.157	0.153
77	12/10/2018 10:10	0.154	0.159	0.151
78	12/10/2018 10:11	0.152	0.159	0.146
79	12/10/2018 10:12	0.151	0.159	0.154
80	12/10/2018 10:13	0.156	0.160	0.160
81	12/10/2018 10:14	0.163	0.170	0.170
82	12/10/2018 10:15	0.166	0.171	0.163
83	12/10/2018 10:16	0.179	0.228	0.223
84	12/10/2018 10:17	0.191	0.220	0.168
85	12/10/2018 10:18	0.161	0.169	0.160
86	12/10/2018 10:19	0.159	0.162	0.157
87	12/10/2018 10:20	0.159	0.163	0.162
88	12/10/2018 10:21	0.162	0.171	0.171
89	12/10/2018 10:22	0.166	0.172	0.163
90	12/10/2018 10:23	0.163	0.165	0.164
91	12/10/2018 10:24	0.163	0.165	0.163
92	12/10/2018 10:25	0.162	0.164	0.162
93	12/10/2018 10:26	0.162	0.165	0.163
94	12/10/2018 10:27	0.164	0.168	0.163
95	12/10/2018 10:28	0.165	0.172	0.163
96	12/10/2018 10:29	0.163	0.167	0.163
97	12/10/2018 10:30	0.172	0.192	0.185
98	12/10/2018 10:31	0.179	0.186	0.170
99	12/10/2018 10:32	0.166	0.170	0.164

100	12/10/2018 10:33	0.168	0.173	0.166
101	12/10/2018 10:34	0.166	0.170	0.168
102	12/10/2018 10:35	0.165	0.168	0.166
103	12/10/2018 10:36	0.166	0.169	0.166
104	12/10/2018 10:37	0.167	0.174	0.173
105	12/10/2018 10:38	0.170	0.179	0.172
106	12/10/2018 10:39	0.171	0.179	0.167
107	12/10/2018 10:40	0.162	0.166	0.158
108	12/10/2018 10:41	0.161	0.165	0.162
109	12/10/2018 10:42	0.161	0.163	0.162
110	12/10/2018 10:43	0.163	0.166	0.166
111	12/10/2018 10:44	0.163	0.166	0.165
112	12/10/2018 10:45	0.164	0.167	0.163
113	12/10/2018 10:46	0.165	0.171	0.169
114	12/10/2018 10:47	0.164	0.168	0.162
115	12/10/2018 10:48	0.163	0.168	0.168
116	12/10/2018 10:49	0.169	0.173	0.171
117	12/10/2018 10:50	0.177	0.189	0.180
118	12/10/2018 10:51	0.185	0.222	0.222
119	12/10/2018 10:52	0.188	0.253	0.162
120	12/10/2018 10:53	0.169	0.192	0.167
121	12/10/2018 10:54	0.165	0.172	0.170
122	12/10/2018 10:55	0.198	0.256	0.218
123	12/10/2018 10:56	0.180	0.237	0.162
124	12/10/2018 10:57	0.180	0.234	0.234
125	12/10/2018 10:58	0.232	0.277	0.220
126	12/10/2018 10:59	0.185	0.225	0.183
127	12/10/2018 11:00	0.197	0.244	0.194
128	12/10/2018 11:01	0.189	0.216	0.183
129	12/10/2018 11:02	0.175	0.195	0.185
130	12/10/2018 11:03	0.184	0.215	0.168
131	12/10/2018 11:04	0.184	0.250	0.232
132	12/10/2018 11:05	0.210	0.275	0.179
133	12/10/2018 11:06	0.171	0.179	0.164
134	12/10/2018 11:07	0.177	0.201	0.196
135	12/10/2018 11:08	0.188	0.212	0.171
136	12/10/2018 11:09	0.179	0.223	0.168
137	12/10/2018 11:10	0.169	0.176	0.166
138	12/10/2018 11:11	0.176	0.207	0.181
139	12/10/2018 11:12	0.183	0.220	0.180
140	12/10/2018 11:13	0.176	0.231	0.167
141	12/10/2018 11:14	0.175	0.211	0.172
142	12/10/2018 11:15	0.177	0.190	0.184
143	12/10/2018 11:16	0.191	0.209	0.180
144	12/10/2018 11:17	0.185	0.203	0.187
145	12/10/2018 11:18	0.196	0.237	0.178
146	12/10/2018 11:19	0.194	0.209	0.191



147	12/10/2018 11:20	0.177	0.186	0.177
148	12/10/2018 11:21	0.172	0.177	0.168
149	12/10/2018 11:22	0.174	0.182	0.173
150	12/10/2018 11:23	0.171	0.178	0.167
151	12/10/2018 11:24	0.168	0.170	0.170
152	12/10/2018 11:25	0.171	0.178	0.178
153	12/10/2018 11:26	0.174	0.178	0.172
154	12/10/2018 11:27	0.169	0.175	0.165
155	12/10/2018 11:28	0.167	0.173	0.172
156	12/10/2018 11:29	0.170	0.173	0.173
157	12/10/2018 11:30	0.178	0.182	0.182
158	12/10/2018 11:31	0.180	0.189	0.172
159	12/10/2018 11:32	0.170	0.175	0.167
160	12/10/2018 11:33	0.164	0.167	0.164
161	12/10/2018 11:34	0.164	0.167	0.162
162	12/10/2018 11:35	0.163	0.165	0.164
163	12/10/2018 11:36	0.164	0.168	0.166
164	12/10/2018 11:37	0.167	0.170	0.169
165	12/10/2018 11:38	0.173	0.192	0.187
166	12/10/2018 11:39	0.178	0.185	0.174
167	12/10/2018 11:40	0.174	0.179	0.179
168	12/10/2018 11:41	0.170	0.179	0.168
169	12/10/2018 11:42	0.167	0.169	0.166
170	12/10/2018 11:43	0.168	0.170	0.169
171	12/10/2018 11:44	0.172	0.179	0.177
172	12/10/2018 11:45	0.172	0.176	0.169
173	12/10/2018 11:46	0.170	0.173	0.167
174	12/10/2018 11:47	0.167	0.169	0.166
175	12/10/2018 11:48	0.169	0.175	0.171
176	12/10/2018 11:49	0.170	0.174	0.167
177	12/10/2018 11:50	0.166	0.169	0.167
178	12/10/2018 11:51	0.172	0.187	0.184
179	12/10/2018 11:52	0.176	0.183	0.172
180	12/10/2018 11:53	0.169	0.172	0.166
181	12/10/2018 11:54	0.170	0.176	0.176
182	12/10/2018 11:55	0.182	0.188	0.187
183	12/10/2018 11:56	0.178	0.189	0.189
184	12/10/2018 11:57	0.199	0.219	0.202
185	12/10/2018 11:58	0.202	0.225	0.180
186	12/10/2018 11:59	0.169	0.177	0.177
187	12/10/2018 12:00	0.177	0.192	0.174
188	12/10/2018 12:01	0.184	0.200	0.184
189	12/10/2018 12:02	0.175	0.182	0.177
190	12/10/2018 12:03	0.184	0.225	0.187
191	12/10/2018 12:04	0.186	0.204	0.202
192	12/10/2018 12:05	0.197	0.208	0.190
193	12/10/2018 12:06	0.190	0.203	0.181

194	12/10/2018 12:07	0.182	0.197	0.176
195	12/10/2018 12:08	0.177	0.184	0.184
196	12/10/2018 12:09	0.182	0.201	0.201
197	12/10/2018 12:10	0.200	0.228	0.198
198	12/10/2018 12:11	0.191	0.208	0.180
199	12/10/2018 12:12	0.183	0.201	0.190
200	12/10/2018 12:13	0.174	0.192	0.170
201	12/10/2018 12:14	0.168	0.170	0.169
202	12/10/2018 12:15	0.170	0.172	0.172
203	12/10/2018 12:16	0.174	0.178	0.175
204	12/10/2018 12:17	0.181	0.194	0.182
205	12/10/2018 12:18	0.175	0.182	0.171
206	12/10/2018 12:19	0.174	0.179	0.178
207	12/10/2018 12:20	0.191	0.206	0.186
208	12/10/2018 12:21	0.194	0.207	0.192
209	12/10/2018 12:22	0.179	0.192	0.174
210	12/10/2018 12:23	0.171	0.173	0.172
211	12/10/2018 12:24	0.173	0.178	0.173
212	12/10/2018 12:25	0.169	0.173	0.169
213	12/10/2018 12:26	0.168	0.171	0.169
214	12/10/2018 12:27	0.169	0.171	0.170
215	12/10/2018 12:28	0.170	0.172	0.172
216	12/10/2018 12:29	0.171	0.173	0.173
217	12/10/2018 12:30	0.176	0.182	0.177
218	12/10/2018 12:31	0.175	0.179	0.174
219	12/10/2018 12:32	0.173	0.175	0.175
220	12/10/2018 12:33	0.175	0.176	0.174
221	12/10/2018 12:34	0.176	0.179	0.178
222	12/10/2018 12:35	0.177	0.180	0.175
223	12/10/2018 12:36	0.175	0.180	0.177
224	12/10/2018 12:37	0.177	0.179	0.178
225	12/10/2018 12:38	0.175	0.178	0.175
226	12/10/2018 12:39	0.175	0.179	0.179
227	12/10/2018 12:40	0.177	0.182	0.176
228	12/10/2018 12:41	0.177	0.179	0.178
229	12/10/2018 12:42	0.178	0.181	0.180
230	12/10/2018 12:43	0.179	0.184	0.177
231	12/10/2018 12:44	0.180	0.184	0.178
232	12/10/2018 12:45	0.179	0.188	0.188
233	12/10/2018 12:46	0.209	0.233	0.225
234	12/10/2018 12:47	0.218	0.255	0.224
235	12/10/2018 12:48	0.202	0.228	0.186
236	12/10/2018 12:49	0.182	0.189	0.177
237	12/10/2018 12:50	0.178	0.180	0.179
238	12/10/2018 12:51	0.180	0.182	0.181
239	12/10/2018 12:52	0.178	0.180	0.179
240	12/10/2018 12:53	0.190	0.207	0.191

241	12/10/2018 12:54	0.192	0.206	0.187
242	12/10/2018 12:55	0.183	0.186	0.182
243	12/10/2018 12:56	0.182	0.184	0.183
244	12/10/2018 12:57	0.183	0.186	0.181
245	12/10/2018 12:58	0.185	0.189	0.189
246	12/10/2018 12:59	0.186	0.191	0.184
247	12/10/2018 13:00	0.184	0.187	0.181
248	12/10/2018 13:01	0.180	0.181	0.180
249	12/10/2018 13:02	0.179	0.181	0.180
250	12/10/2018 13:03	0.179	0.180	0.179
251	12/10/2018 13:04	0.180	0.182	0.181
252	12/10/2018 13:05	0.181	0.183	0.183
253	12/10/2018 13:06	0.182	0.185	0.183
254	12/10/2018 13:07	0.183	0.184	0.184
255	12/10/2018 13:08	0.183	0.185	0.184
256	12/10/2018 13:09	0.186	0.203	0.199
257	12/10/2018 13:10	0.193	0.204	0.188
258	12/10/2018 13:11	0.187	0.196	0.193
259	12/10/2018 13:12	0.186	0.193	0.188
260	12/10/2018 13:13	0.193	0.204	0.204
261	12/10/2018 13:14	0.198	0.209	0.195
262	12/10/2018 13:15	0.188	0.195	0.186
263	12/10/2018 13:16	0.184	0.186	0.186
264	12/10/2018 13:17	0.186	0.188	0.185
265	12/10/2018 13:18	0.184	0.188	0.185
266	12/10/2018 13:19	0.191	0.197	0.194
267	12/10/2018 13:20	0.190	0.200	0.187
268	12/10/2018 13:21	0.192	0.205	0.197
269	12/10/2018 13:22	0.197	0.202	0.187
270	12/10/2018 13:23	0.183	0.186	0.184
271	12/10/2018 13:24	0.182	0.184	0.183
272	12/10/2018 13:25	0.182	0.184	0.183
273	12/10/2018 13:26	0.186	0.190	0.185
274	12/10/2018 13:27	0.183	0.185	0.183
275	12/10/2018 13:28	0.193	0.205	0.193
276	12/10/2018 13:29	0.194	0.205	0.205
277	12/10/2018 13:30	0.201	0.208	0.199
278	12/10/2018 13:31	0.204	0.231	0.187
279	12/10/2018 13:32	0.190	0.195	0.191
280	12/10/2018 13:33	0.211	0.242	0.224
281	12/10/2018 13:34	0.199	0.223	0.196
282	12/10/2018 13:35	0.197	0.207	0.207
283	12/10/2018 13:36	0.210	0.221	0.201
284	12/10/2018 13:37	0.205	0.225	0.198
285	12/10/2018 13:38	0.202	0.222	0.201
286	12/10/2018 13:39	0.191	0.205	0.188
287	12/10/2018 13:40	0.186	0.193	0.184

288	12/10/2018 13:41	0.183	0.188	0.183
289	12/10/2018 13:42	0.182	0.185	0.182
290	12/10/2018 13:43	0.185	0.191	0.187
291	12/10/2018 13:44	0.185	0.187	0.185
292	12/10/2018 13:45	0.186	0.189	0.187
293	12/10/2018 13:46	0.187	0.188	0.188
294	12/10/2018 13:47	0.189	0.192	0.188
295	12/10/2018 13:48	0.188	0.190	0.188
296	12/10/2018 13:49	0.188	0.191	0.190
297	12/10/2018 13:50	0.190	0.192	0.190
298	12/10/2018 13:51	0.189	0.191	0.188
299	12/10/2018 13:52	0.189	0.191	0.191
300	12/10/2018 13:53	0.199	0.206	0.200
301	12/10/2018 13:54	0.193	0.199	0.191
302	12/10/2018 13:55	0.191	0.193	0.191
303	12/10/2018 13:56	0.190	0.192	0.190
304	12/10/2018 13:57	0.189	0.193	0.188
305	12/10/2018 13:58	0.189	0.191	0.190
306	12/10/2018 13:59	0.189	0.191	0.189
307	12/10/2018 14:00	0.190	0.192	0.191
308	12/10/2018 14:01	0.190	0.192	0.190
309	12/10/2018 14:02	0.190	0.192	0.190
310	12/10/2018 14:03	0.190	0.192	0.190
311	12/10/2018 14:04	0.192	0.195	0.193
312	12/10/2018 14:05	0.191	0.192	0.191
313	12/10/2018 14:06	0.190	0.194	0.194
314	12/10/2018 14:07	0.240	0.278	0.235
315	12/10/2018 14:08	0.207	0.232	0.199
316	12/10/2018 14:09	0.192	0.198	0.190
317	12/10/2018 14:10	0.190	0.192	0.190
318	12/10/2018 14:11	0.188	0.190	0.188
319	12/10/2018 14:12	0.190	0.193	0.190
320	12/10/2018 14:13	0.189	0.191	0.190
321	12/10/2018 14:14	0.189	0.191	0.188
322	12/10/2018 14:15	0.187	0.189	0.186
323	12/10/2018 14:16	0.187	0.188	0.188
324	12/10/2018 14:17	0.191	0.194	0.193
325	12/10/2018 14:18	0.189	0.193	0.189
326	12/10/2018 14:19	0.190	0.194	0.188
327	12/10/2018 14:20	0.188	0.190	0.188
328	12/10/2018 14:21	0.187	0.189	0.188
329	12/10/2018 14:22	0.189	0.192	0.188
330	12/10/2018 14:23	0.186	0.189	0.185
331	12/10/2018 14:24	0.185	0.186	0.185
332	12/10/2018 14:25	0.184	0.186	0.186
333	12/10/2018 14:26	0.185	0.187	0.186
334	12/10/2018 14:27	0.185	0.188	0.185

335	12/10/2018 14:28	0.185	0.187	0.185
336	12/10/2018 14:29	0.186	0.188	0.184
337	12/10/2018 14:30	0.186	0.187	0.187
338	12/10/2018 14:31	0.185	0.187	0.187
339	12/10/2018 14:32	0.186	0.190	0.185
340	12/10/2018 14:33	0.191	0.197	0.187
341	12/10/2018 14:34	0.186	0.188	0.184
342	12/10/2018 14:35	0.184	0.186	0.184
343	12/10/2018 14:36	0.185	0.187	0.185
344	12/10/2018 14:37	0.181	0.186	0.179
345	12/10/2018 14:38	0.182	0.185	0.182
346	12/10/2018 14:39	0.187	0.211	0.209
347	12/10/2018 14:40	0.189	0.207	0.183
348	12/10/2018 14:41	0.182	0.184	0.183
349	12/10/2018 14:42	0.181	0.184	0.181
350	12/10/2018 14:43	0.184	0.189	0.184
351	12/10/2018 14:44	0.181	0.184	0.179

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18/12/11 08:03

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Summary

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Unit Name                   MiniRAE 3000(PGM-7320)  
Unit SN                     592-912830  
Unit Firmware Ver         V1.20A  
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Running Mode               Hygiene Mode  
Measure Type               Avg; Max; Real  
Datalog Mode               Continuous  
Datalog Type               Auto  
Diagnostic Mode             No  
Stop Reason                Battery Low  
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Site ID                     12345678  
User ID                     12345678  
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Begin                      12/11/2018 8:04  
End                         12/11/2018 15:20  
Sample Period(s)           60  
Number of Records          424  
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Sensor                     VOC(ppm)  
Span                       100  
Span 2                     N/A  
Low Alarm                  50  
High Alarm                 100  
Over Alarm                 15000  
STEL Alarm                 25  
TWA Alarm                  10  
Measurement Gas            Isobutylene  
Calibration Time           12/11/2018 7:39  
Peak                       0.305  
Min                         0.000  
Average                    0.102  
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Datalog

Index	Date/Time	VOC(ppm)	VOC(ppm)	VOC(ppm)
		(Avg)	(Max)	(Real)
1	12/11/2018 8:04	0.013	0.093	0.000
2	12/11/2018 8:05	0.000	0.000	0.000
3	12/11/2018 8:06	0.000	0.000	0.000
4	12/11/2018 8:07	0.000	0.000	0.000
5	12/11/2018 8:08	0.000	0.000	0.000

6	12/11/2018 8:09	0.000	0.000	0.000
7	12/11/2018 8:10	0.000	0.000	0.000
8	12/11/2018 8:11	0.000	0.000	0.000
9	12/11/2018 8:12	0.000	0.000	0.000
10	12/11/2018 8:13	0.000	0.000	0.000
11	12/11/2018 8:14	0.000	0.000	0.000
12	12/11/2018 8:15	0.000	0.000	0.000
13	12/11/2018 8:16	0.000	0.000	0.000
14	12/11/2018 8:17	0.000	0.000	0.000
15	12/11/2018 8:18	0.000	0.000	0.000
16	12/11/2018 8:19	0.000	0.000	0.000
17	12/11/2018 8:20	0.000	0.000	0.000
18	12/11/2018 8:21	0.000	0.000	0.000
19	12/11/2018 8:22	0.000	0.003	0.000
20	12/11/2018 8:23	0.000	0.011	0.000
21	12/11/2018 8:24	0.000	0.004	0.000
22	12/11/2018 8:25	0.000	0.002	0.000
23	12/11/2018 8:26	0.000	0.000	0.000
24	12/11/2018 8:27	0.000	0.006	0.000
25	12/11/2018 8:28	0.000	0.005	0.000
26	12/11/2018 8:29	0.001	0.007	0.006
27	12/11/2018 8:30	0.000	0.003	0.000
28	12/11/2018 8:31	0.000	0.006	0.000
29	12/11/2018 8:32	0.001	0.009	0.002
30	12/11/2018 8:33	0.003	0.010	0.000
31	12/11/2018 8:34	0.004	0.012	0.006
32	12/11/2018 8:35	0.008	0.013	0.006
33	12/11/2018 8:36	0.012	0.026	0.014
34	12/11/2018 8:37	0.016	0.025	0.020
35	12/11/2018 8:38	0.016	0.026	0.020
36	12/11/2018 8:39	0.022	0.035	0.022
37	12/11/2018 8:40	0.018	0.023	0.017
38	12/11/2018 8:41	0.020	0.024	0.021
39	12/11/2018 8:42	0.021	0.023	0.021
40	12/11/2018 8:43	0.022	0.024	0.023
41	12/11/2018 8:44	0.026	0.029	0.026
42	12/11/2018 8:45	0.026	0.029	0.027
43	12/11/2018 8:46	0.027	0.030	0.029
44	12/11/2018 8:47	0.029	0.032	0.032
45	12/11/2018 8:48	0.033	0.041	0.035
46	12/11/2018 8:49	0.033	0.041	0.041
47	12/11/2018 8:50	0.040	0.048	0.039
48	12/11/2018 8:51	0.043	0.048	0.039
49	12/11/2018 8:52	0.040	0.054	0.045
50	12/11/2018 8:53	0.045	0.052	0.045
51	12/11/2018 8:54	0.041	0.044	0.039
52	12/11/2018 8:55	0.039	0.042	0.042

53	12/11/2018 8:56	0.044	0.053	0.050
54	12/11/2018 8:57	0.049	0.052	0.051
55	12/11/2018 8:58	0.050	0.057	0.051
56	12/11/2018 8:59	0.047	0.052	0.047
57	12/11/2018 9:00	0.049	0.055	0.055
58	12/11/2018 9:01	0.056	0.066	0.060
59	12/11/2018 9:02	0.063	0.074	0.066
60	12/11/2018 9:03	0.063	0.074	0.063
61	12/11/2018 9:04	0.065	0.076	0.067
62	12/11/2018 9:05	0.069	0.076	0.066
63	12/11/2018 9:06	0.068	0.079	0.079
64	12/11/2018 9:07	0.069	0.080	0.065
65	12/11/2018 9:08	0.066	0.072	0.068
66	12/11/2018 9:09	0.070	0.083	0.064
67	12/11/2018 9:10	0.069	0.089	0.067
68	12/11/2018 9:11	0.070	0.076	0.071
69	12/11/2018 9:12	0.072	0.077	0.071
70	12/11/2018 9:13	0.074	0.083	0.079
71	12/11/2018 9:14	0.083	0.101	0.080
72	12/11/2018 9:15	0.081	0.099	0.080
73	12/11/2018 9:16	0.081	0.096	0.079
74	12/11/2018 9:17	0.077	0.099	0.081
75	12/11/2018 9:18	0.077	0.089	0.082
76	12/11/2018 9:19	0.082	0.105	0.086
77	12/11/2018 9:20	0.078	0.084	0.077
78	12/11/2018 9:21	0.077	0.079	0.078
79	12/11/2018 9:22	0.078	0.083	0.078
80	12/11/2018 9:23	0.078	0.081	0.080
81	12/11/2018 9:24	0.080	0.097	0.097
82	12/11/2018 9:25	0.082	0.101	0.081
83	12/11/2018 9:26	0.078	0.086	0.079
84	12/11/2018 9:27	0.078	0.100	0.077
85	12/11/2018 9:28	0.079	0.087	0.078
86	12/11/2018 9:29	0.079	0.101	0.077
87	12/11/2018 9:30	0.078	0.102	0.077
88	12/11/2018 9:31	0.077	0.082	0.079
89	12/11/2018 9:32	0.077	0.080	0.075
90	12/11/2018 9:33	0.077	0.102	0.070
91	12/11/2018 9:34	0.077	0.093	0.076
92	12/11/2018 9:35	0.076	0.102	0.075
93	12/11/2018 9:36	0.071	0.082	0.070
94	12/11/2018 9:37	0.071	0.086	0.080
95	12/11/2018 9:38	0.071	0.094	0.069
96	12/11/2018 9:39	0.070	0.091	0.070
97	12/11/2018 9:40	0.070	0.088	0.069
98	12/11/2018 9:41	0.082	0.120	0.100
99	12/11/2018 9:42	0.093	0.122	0.082



100	12/11/2018 9:43	0.084	0.111	0.087
101	12/11/2018 9:44	0.079	0.089	0.071
102	12/11/2018 9:45	0.081	0.108	0.078
103	12/11/2018 9:46	0.083	0.100	0.086
104	12/11/2018 9:47	0.085	0.089	0.088
105	12/11/2018 9:48	0.091	0.118	0.089
106	12/11/2018 9:49	0.088	0.092	0.092
107	12/11/2018 9:50	0.090	0.093	0.085
108	12/11/2018 9:51	0.091	0.098	0.096
109	12/11/2018 9:52	0.096	0.101	0.096
110	12/11/2018 9:53	0.095	0.098	0.095
111	12/11/2018 9:54	0.097	0.101	0.099
112	12/11/2018 9:55	0.099	0.105	0.103
113	12/11/2018 9:56	0.102	0.106	0.106
114	12/11/2018 9:57	0.103	0.108	0.108
115	12/11/2018 9:58	0.105	0.110	0.109
116	12/11/2018 9:59	0.104	0.109	0.103
117	12/11/2018 10:00	0.106	0.110	0.105
118	12/11/2018 10:01	0.106	0.109	0.109
119	12/11/2018 10:02	0.109	0.113	0.112
120	12/11/2018 10:03	0.110	0.123	0.110
121	12/11/2018 10:04	0.108	0.112	0.110
122	12/11/2018 10:05	0.112	0.125	0.115
123	12/11/2018 10:06	0.113	0.118	0.115
124	12/11/2018 10:07	0.115	0.129	0.114
125	12/11/2018 10:08	0.115	0.119	0.118
126	12/11/2018 10:09	0.116	0.119	0.117
127	12/11/2018 10:10	0.116	0.119	0.116
128	12/11/2018 10:11	0.117	0.125	0.119
129	12/11/2018 10:12	0.116	0.121	0.116
130	12/11/2018 10:13	0.116	0.120	0.120
131	12/11/2018 10:14	0.117	0.124	0.118
132	12/11/2018 10:15	0.116	0.118	0.117
133	12/11/2018 10:16	0.118	0.121	0.117
134	12/11/2018 10:17	0.118	0.120	0.120
135	12/11/2018 10:18	0.120	0.122	0.121
136	12/11/2018 10:19	0.120	0.122	0.118
137	12/11/2018 10:20	0.120	0.126	0.125
138	12/11/2018 10:21	0.122	0.125	0.121
139	12/11/2018 10:22	0.123	0.137	0.124
140	12/11/2018 10:23	0.122	0.124	0.121
141	12/11/2018 10:24	0.124	0.128	0.125
142	12/11/2018 10:25	0.124	0.127	0.127
143	12/11/2018 10:26	0.125	0.127	0.127
144	12/11/2018 10:27	0.124	0.126	0.125
145	12/11/2018 10:28	0.124	0.127	0.125
146	12/11/2018 10:29	0.127	0.129	0.126

147	12/11/2018 10:30	0.125	0.128	0.125
148	12/11/2018 10:31	0.124	0.126	0.126
149	12/11/2018 10:32	0.125	0.141	0.122
150	12/11/2018 10:33	0.123	0.128	0.123
151	12/11/2018 10:34	0.124	0.126	0.125
152	12/11/2018 10:35	0.124	0.126	0.126
153	12/11/2018 10:36	0.123	0.127	0.124
154	12/11/2018 10:37	0.124	0.127	0.125
155	12/11/2018 10:38	0.123	0.124	0.122
156	12/11/2018 10:39	0.122	0.124	0.123
157	12/11/2018 10:40	0.122	0.125	0.124
158	12/11/2018 10:41	0.122	0.124	0.123
159	12/11/2018 10:42	0.122	0.124	0.123
160	12/11/2018 10:43	0.124	0.127	0.127
161	12/11/2018 10:44	0.124	0.126	0.123
162	12/11/2018 10:45	0.122	0.126	0.122
163	12/11/2018 10:46	0.120	0.122	0.120
164	12/11/2018 10:47	0.120	0.123	0.123
165	12/11/2018 10:48	0.122	0.124	0.122
166	12/11/2018 10:49	0.120	0.124	0.120
167	12/11/2018 10:50	0.120	0.122	0.119
168	12/11/2018 10:51	0.121	0.132	0.119
169	12/11/2018 10:52	0.120	0.121	0.120
170	12/11/2018 10:53	0.122	0.124	0.123
171	12/11/2018 10:54	0.123	0.125	0.124
172	12/11/2018 10:55	0.123	0.125	0.124
173	12/11/2018 10:56	0.126	0.129	0.126
174	12/11/2018 10:57	0.124	0.127	0.122
175	12/11/2018 10:58	0.123	0.126	0.125
176	12/11/2018 10:59	0.123	0.126	0.126
177	12/11/2018 11:00	0.123	0.126	0.123
178	12/11/2018 11:01	0.123	0.127	0.126
179	12/11/2018 11:02	0.125	0.127	0.125
180	12/11/2018 11:03	0.125	0.128	0.128
181	12/11/2018 11:04	0.127	0.130	0.126
182	12/11/2018 11:05	0.126	0.132	0.127
183	12/11/2018 11:06	0.126	0.129	0.127
184	12/11/2018 11:07	0.125	0.127	0.125
185	12/11/2018 11:08	0.125	0.144	0.144
186	12/11/2018 11:09	0.162	0.199	0.134
187	12/11/2018 11:10	0.127	0.138	0.123
188	12/11/2018 11:11	0.124	0.129	0.126
189	12/11/2018 11:12	0.124	0.127	0.125
190	12/11/2018 11:13	0.125	0.126	0.125
191	12/11/2018 11:14	0.135	0.267	0.258
192	12/11/2018 11:15	0.158	0.305	0.128
193	12/11/2018 11:16	0.125	0.127	0.126

194	12/11/2018 11:17	0.125	0.127	0.126
195	12/11/2018 11:18	0.140	0.186	0.141
196	12/11/2018 11:19	0.136	0.153	0.137
197	12/11/2018 11:20	0.153	0.175	0.143
198	12/11/2018 11:21	0.135	0.153	0.136
199	12/11/2018 11:22	0.140	0.165	0.128
200	12/11/2018 11:23	0.157	0.252	0.122
201	12/11/2018 11:24	0.174	0.299	0.128
202	12/11/2018 11:25	0.125	0.154	0.119
203	12/11/2018 11:26	0.117	0.119	0.118
204	12/11/2018 11:27	0.120	0.123	0.123
205	12/11/2018 11:28	0.122	0.124	0.124
206	12/11/2018 11:29	0.123	0.127	0.121
207	12/11/2018 11:30	0.119	0.122	0.122
208	12/11/2018 11:31	0.123	0.135	0.135
209	12/11/2018 11:32	0.148	0.190	0.154
210	12/11/2018 11:33	0.123	0.155	0.119
211	12/11/2018 11:34	0.114	0.119	0.112
212	12/11/2018 11:35	0.116	0.120	0.119
213	12/11/2018 11:36	0.118	0.122	0.114
214	12/11/2018 11:37	0.115	0.117	0.115
215	12/11/2018 11:38	0.115	0.117	0.115
216	12/11/2018 11:39	0.113	0.116	0.113
217	12/11/2018 11:40	0.113	0.115	0.114
218	12/11/2018 11:41	0.114	0.116	0.113
219	12/11/2018 11:42	0.112	0.114	0.112
220	12/11/2018 11:43	0.112	0.114	0.114
221	12/11/2018 11:44	0.114	0.115	0.115
222	12/11/2018 11:45	0.112	0.116	0.113
223	12/11/2018 11:46	0.112	0.114	0.112
224	12/11/2018 11:47	0.113	0.115	0.113
225	12/11/2018 11:48	0.112	0.114	0.113
226	12/11/2018 11:49	0.113	0.114	0.113
227	12/11/2018 11:50	0.113	0.115	0.115
228	12/11/2018 11:51	0.114	0.117	0.113
229	12/11/2018 11:52	0.113	0.115	0.112
230	12/11/2018 11:53	0.114	0.116	0.115
231	12/11/2018 11:54	0.115	0.117	0.115
232	12/11/2018 11:55	0.115	0.117	0.116
233	12/11/2018 11:56	0.116	0.119	0.117
234	12/11/2018 11:57	0.116	0.120	0.120
235	12/11/2018 11:58	0.116	0.119	0.115
236	12/11/2018 11:59	0.117	0.120	0.119
237	12/11/2018 12:00	0.121	0.123	0.122
238	12/11/2018 12:01	0.119	0.122	0.119
239	12/11/2018 12:02	0.118	0.120	0.119
240	12/11/2018 12:03	0.119	0.121	0.120

241	12/11/2018 12:04	0.121	0.124	0.124
242	12/11/2018 12:05	0.125	0.129	0.124
243	12/11/2018 12:06	0.121	0.124	0.121
244	12/11/2018 12:07	0.123	0.126	0.124
245	12/11/2018 12:08	0.124	0.127	0.122
246	12/11/2018 12:09	0.122	0.123	0.123
247	12/11/2018 12:10	0.121	0.124	0.122
248	12/11/2018 12:11	0.121	0.123	0.121
249	12/11/2018 12:12	0.123	0.124	0.123
250	12/11/2018 12:13	0.123	0.125	0.125
251	12/11/2018 12:14	0.124	0.125	0.125
252	12/11/2018 12:15	0.123	0.125	0.123
253	12/11/2018 12:16	0.125	0.127	0.126
254	12/11/2018 12:17	0.125	0.126	0.126
255	12/11/2018 12:18	0.126	0.128	0.125
256	12/11/2018 12:19	0.125	0.128	0.128
257	12/11/2018 12:20	0.126	0.128	0.128
258	12/11/2018 12:21	0.127	0.130	0.129
259	12/11/2018 12:22	0.127	0.129	0.128
260	12/11/2018 12:23	0.128	0.131	0.127
261	12/11/2018 12:24	0.131	0.137	0.137
262	12/11/2018 12:25	0.134	0.137	0.131
263	12/11/2018 12:26	0.131	0.134	0.134
264	12/11/2018 12:27	0.134	0.137	0.136
265	12/11/2018 12:28	0.137	0.140	0.137
266	12/11/2018 12:29	0.134	0.137	0.131
267	12/11/2018 12:30	0.133	0.135	0.133
268	12/11/2018 12:31	0.131	0.133	0.131
269	12/11/2018 12:32	0.132	0.134	0.134
270	12/11/2018 12:33	0.135	0.138	0.137
271	12/11/2018 12:34	0.137	0.140	0.137
272	12/11/2018 12:35	0.137	0.140	0.137
273	12/11/2018 12:36	0.139	0.141	0.140
274	12/11/2018 12:37	0.140	0.144	0.144
275	12/11/2018 12:38	0.141	0.144	0.141
276	12/11/2018 12:39	0.141	0.143	0.142
277	12/11/2018 12:40	0.142	0.144	0.142
278	12/11/2018 12:41	0.144	0.146	0.143
279	12/11/2018 12:42	0.143	0.145	0.143
280	12/11/2018 12:43	0.142	0.143	0.141
281	12/11/2018 12:44	0.142	0.145	0.143
282	12/11/2018 12:45	0.141	0.143	0.139
283	12/11/2018 12:46	0.139	0.142	0.139
284	12/11/2018 12:47	0.142	0.147	0.146
285	12/11/2018 12:48	0.146	0.148	0.147
286	12/11/2018 12:49	0.147	0.149	0.148
287	12/11/2018 12:50	0.147	0.149	0.148

288	12/11/2018 12:51	0.147	0.149	0.147
289	12/11/2018 12:52	0.146	0.148	0.145
290	12/11/2018 12:53	0.146	0.149	0.148
291	12/11/2018 12:54	0.153	0.166	0.158
292	12/11/2018 12:55	0.159	0.164	0.164
293	12/11/2018 12:56	0.161	0.165	0.162
294	12/11/2018 12:57	0.161	0.163	0.162
295	12/11/2018 12:58	0.162	0.165	0.163
296	12/11/2018 12:59	0.161	0.164	0.160
297	12/11/2018 13:00	0.161	0.165	0.165
298	12/11/2018 13:01	0.165	0.169	0.167
299	12/11/2018 13:02	0.167	0.168	0.166
300	12/11/2018 13:16	0.077	0.084	0.077
301	12/11/2018 13:17	0.077	0.080	0.079
302	12/11/2018 13:18	0.081	0.084	0.078
303	12/11/2018 13:19	0.081	0.086	0.085
304	12/11/2018 13:20	0.085	0.089	0.089
305	12/11/2018 13:21	0.088	0.095	0.086
306	12/11/2018 13:22	0.094	0.107	0.091
307	12/11/2018 13:23	0.089	0.092	0.088
308	12/11/2018 13:24	0.090	0.094	0.089
309	12/11/2018 13:25	0.091	0.094	0.094
310	12/11/2018 13:26	0.097	0.131	0.095
311	12/11/2018 13:27	0.104	0.124	0.096
312	12/11/2018 13:28	0.099	0.107	0.101
313	12/11/2018 13:29	0.101	0.105	0.097
314	12/11/2018 13:30	0.097	0.099	0.099
315	12/11/2018 13:31	0.099	0.102	0.102
316	12/11/2018 13:32	0.102	0.109	0.099
317	12/11/2018 13:33	0.097	0.100	0.100
318	12/11/2018 13:34	0.100	0.102	0.102
319	12/11/2018 13:35	0.099	0.102	0.098
320	12/11/2018 13:36	0.099	0.101	0.101
321	12/11/2018 13:37	0.100	0.102	0.101
322	12/11/2018 13:38	0.102	0.105	0.103
323	12/11/2018 13:39	0.112	0.116	0.112
324	12/11/2018 13:40	0.111	0.118	0.109
325	12/11/2018 13:41	0.108	0.110	0.109
326	12/11/2018 13:42	0.110	0.111	0.110
327	12/11/2018 13:43	0.109	0.111	0.109
328	12/11/2018 13:44	0.110	0.111	0.111
329	12/11/2018 13:45	0.111	0.114	0.113
330	12/11/2018 13:46	0.113	0.114	0.113
331	12/11/2018 13:47	0.110	0.113	0.111
332	12/11/2018 13:48	0.113	0.115	0.114
333	12/11/2018 13:49	0.116	0.123	0.112
334	12/11/2018 13:50	0.114	0.121	0.115

335	12/11/2018 13:51	0.113	0.116	0.113
336	12/11/2018 13:52	0.113	0.117	0.114
337	12/11/2018 13:53	0.113	0.115	0.114
338	12/11/2018 13:54	0.112	0.114	0.112
339	12/11/2018 13:55	0.112	0.115	0.114
340	12/11/2018 13:56	0.112	0.114	0.114
341	12/11/2018 13:57	0.114	0.116	0.113
342	12/11/2018 13:58	0.113	0.116	0.114
343	12/11/2018 13:59	0.113	0.115	0.113
344	12/11/2018 14:00	0.114	0.117	0.116
345	12/11/2018 14:01	0.115	0.116	0.115
346	12/11/2018 14:02	0.115	0.117	0.116
347	12/11/2018 14:03	0.115	0.117	0.114
348	12/11/2018 14:04	0.115	0.117	0.115
349	12/11/2018 14:05	0.116	0.118	0.118
350	12/11/2018 14:06	0.117	0.119	0.116
351	12/11/2018 14:07	0.118	0.121	0.118
352	12/11/2018 14:08	0.118	0.120	0.120
353	12/11/2018 14:09	0.121	0.129	0.129
354	12/11/2018 14:10	0.128	0.131	0.125
355	12/11/2018 14:11	0.122	0.125	0.125
356	12/11/2018 14:12	0.124	0.127	0.125
357	12/11/2018 14:13	0.126	0.133	0.133
358	12/11/2018 14:14	0.124	0.133	0.122
359	12/11/2018 14:15	0.126	0.131	0.124
360	12/11/2018 14:16	0.122	0.125	0.123
361	12/11/2018 14:17	0.128	0.133	0.126
362	12/11/2018 14:18	0.129	0.134	0.130
363	12/11/2018 14:19	0.127	0.133	0.128
364	12/11/2018 14:20	0.126	0.130	0.126
365	12/11/2018 14:21	0.126	0.130	0.128
366	12/11/2018 14:22	0.125	0.129	0.126
367	12/11/2018 14:23	0.129	0.139	0.130
368	12/11/2018 14:24	0.128	0.137	0.128
369	12/11/2018 14:25	0.125	0.131	0.124
370	12/11/2018 14:26	0.125	0.129	0.127
371	12/11/2018 14:27	0.128	0.138	0.136
372	12/11/2018 14:28	0.131	0.136	0.128
373	12/11/2018 14:29	0.139	0.153	0.136
374	12/11/2018 14:30	0.135	0.140	0.134
375	12/11/2018 14:31	0.125	0.134	0.122
376	12/11/2018 14:32	0.122	0.126	0.124
377	12/11/2018 14:33	0.123	0.127	0.124
378	12/11/2018 14:34	0.128	0.137	0.130
379	12/11/2018 14:35	0.129	0.136	0.130
380	12/11/2018 14:36	0.127	0.133	0.127
381	12/11/2018 14:37	0.126	0.129	0.126

382	12/11/2018 14:38	0.127	0.130	0.129
383	12/11/2018 14:39	0.126	0.130	0.127
384	12/11/2018 14:40	0.127	0.131	0.129
385	12/11/2018 14:41	0.129	0.133	0.131
386	12/11/2018 14:42	0.129	0.131	0.131
387	12/11/2018 14:43	0.130	0.133	0.132
388	12/11/2018 14:44	0.129	0.133	0.127
389	12/11/2018 14:45	0.128	0.132	0.129
390	12/11/2018 14:46	0.129	0.132	0.120
391	12/11/2018 14:47	0.119	0.123	0.119
392	12/11/2018 14:48	0.119	0.121	0.118
393	12/11/2018 14:49	0.119	0.121	0.119
394	12/11/2018 14:50	0.118	0.120	0.119
395	12/11/2018 14:51	0.118	0.120	0.118
396	12/11/2018 14:52	0.117	0.119	0.116
397	12/11/2018 14:53	0.116	0.119	0.116
398	12/11/2018 14:54	0.116	0.118	0.118
399	12/11/2018 14:55	0.118	0.120	0.119
400	12/11/2018 14:56	0.119	0.122	0.120
401	12/11/2018 14:57	0.118	0.121	0.118
402	12/11/2018 14:58	0.117	0.119	0.118
403	12/11/2018 14:59	0.117	0.119	0.116
404	12/11/2018 15:00	0.117	0.120	0.120
405	12/11/2018 15:01	0.117	0.120	0.117
406	12/11/2018 15:02	0.116	0.119	0.117
407	12/11/2018 15:03	0.118	0.120	0.118
408	12/11/2018 15:04	0.118	0.120	0.118
409	12/11/2018 15:05	0.116	0.120	0.117
410	12/11/2018 15:06	0.132	0.162	0.124
411	12/11/2018 15:07	0.123	0.128	0.124
412	12/11/2018 15:08	0.120	0.123	0.119
413	12/11/2018 15:09	0.120	0.124	0.122
414	12/11/2018 15:10	0.117	0.121	0.119
415	12/11/2018 15:11	0.119	0.122	0.117
416	12/11/2018 15:12	0.118	0.121	0.121
417	12/11/2018 15:13	0.123	0.127	0.127
418	12/11/2018 15:14	0.126	0.129	0.127
419	12/11/2018 15:15	0.128	0.133	0.124
420	12/11/2018 15:16	0.124	0.129	0.124
421	12/11/2018 15:17	0.122	0.126	0.121
422	12/11/2018 15:18	0.121	0.123	0.123
423	12/11/2018 15:19	0.121	0.124	0.123
424	12/11/2018 15:20	0.123	0.126	0.123

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18/12/12 07:55

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Summary

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Unit Name                   MiniRAE 3000(PGM-7320)  
Unit SN                     592-912830  
Unit Firmware Ver         V1.20A  
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Running Mode               Hygiene Mode  
Measure Type               Avg; Max; Real  
Datalog Mode               Continuous  
Datalog Type               Auto  
Diagnostic Mode            No  
Stop Reason                Power Down  
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Site ID                     12345678  
User ID                     12345678  
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Begin                      12/12/2018 7:56  
End                         12/12/2018 11:50  
Sample Period(s)           60  
Number of Records         233  
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Sensor                     VOC(ppm)  
Span                       100  
Span 2                     N/A  
Low Alarm                  50  
High Alarm                 100  
Over Alarm                 15000  
STEL Alarm                 25  
TWA Alarm                  10  
Measurement Gas            Isobutylene  
Calibration Time           12/12/2018 7:52  
Peak                       0.796  
Min                         0.000  
Average                    0.206  
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Datalog

Index	Date/Time	VOC(ppm)	VOC(ppm)	VOC(ppm)
		(Avg)	(Max)	(Real)
1	12/12/2018 7:56	0.000	0.001	0.000
2	12/12/2018 7:57	0.000	0.000	0.000
3	12/12/2018 7:58	0.007	0.018	0.017
4	12/12/2018 7:59	0.018	0.020	0.017
5	12/12/2018 8:00	0.023	0.028	0.028



6	12/12/2018 8:01	0.030	0.040	0.040
7	12/12/2018 8:02	0.040	0.046	0.042
8	12/12/2018 8:03	0.046	0.054	0.054
9	12/12/2018 8:04	0.051	0.056	0.052
10	12/12/2018 8:05	0.055	0.061	0.060
11	12/12/2018 8:06	0.061	0.066	0.065
12	12/12/2018 8:07	0.067	0.069	0.069
13	12/12/2018 8:08	0.070	0.073	0.073
14	12/12/2018 8:09	0.074	0.079	0.078
15	12/12/2018 8:10	0.080	0.083	0.083
16	12/12/2018 8:11	0.086	0.089	0.089
17	12/12/2018 8:12	0.090	0.092	0.091
18	12/12/2018 8:13	0.095	0.098	0.096
19	12/12/2018 8:14	0.097	0.100	0.098
20	12/12/2018 8:15	0.102	0.112	0.107
21	12/12/2018 8:16	0.105	0.109	0.105
22	12/12/2018 8:17	0.107	0.110	0.109
23	12/12/2018 8:18	0.114	0.120	0.119
24	12/12/2018 8:19	0.118	0.121	0.117
25	12/12/2018 8:20	0.120	0.123	0.122
26	12/12/2018 8:21	0.126	0.135	0.129
27	12/12/2018 8:22	0.126	0.131	0.127
28	12/12/2018 8:23	0.130	0.145	0.130
29	12/12/2018 8:24	0.129	0.132	0.132
30	12/12/2018 8:25	0.134	0.136	0.136
31	12/12/2018 8:26	0.142	0.153	0.153
32	12/12/2018 8:27	0.153	0.167	0.149
33	12/12/2018 8:28	0.143	0.149	0.144
34	12/12/2018 8:29	0.144	0.147	0.147
35	12/12/2018 8:30	0.149	0.153	0.153
36	12/12/2018 8:31	0.153	0.160	0.158
37	12/12/2018 8:32	0.160	0.165	0.163
38	12/12/2018 8:33	0.162	0.172	0.159
39	12/12/2018 8:34	0.163	0.167	0.165
40	12/12/2018 8:35	0.164	0.166	0.166
41	12/12/2018 8:36	0.167	0.170	0.169
42	12/12/2018 8:37	0.170	0.173	0.171
43	12/12/2018 8:38	0.170	0.173	0.173
44	12/12/2018 8:39	0.174	0.176	0.174
45	12/12/2018 8:40	0.176	0.179	0.179
46	12/12/2018 8:41	0.179	0.180	0.179
47	12/12/2018 8:42	0.178	0.179	0.178
48	12/12/2018 8:43	0.178	0.182	0.182
49	12/12/2018 8:44	0.185	0.189	0.189
50	12/12/2018 8:45	0.189	0.192	0.189
51	12/12/2018 8:46	0.189	0.192	0.191
52	12/12/2018 8:47	0.192	0.194	0.192

53	12/12/2018 8:48	0.193	0.195	0.193
54	12/12/2018 8:49	0.195	0.199	0.195
55	12/12/2018 8:50	0.173	0.196	0.173
56	12/12/2018 8:51	0.172	0.177	0.170
57	12/12/2018 8:52	0.174	0.178	0.177
58	12/12/2018 8:53	0.179	0.183	0.174
59	12/12/2018 8:54	0.172	0.174	0.173
60	12/12/2018 8:55	0.174	0.178	0.178
61	12/12/2018 8:56	0.184	0.189	0.187
62	12/12/2018 8:57	0.187	0.198	0.187
63	12/12/2018 8:58	0.183	0.187	0.183
64	12/12/2018 8:59	0.180	0.183	0.178
65	12/12/2018 9:00	0.180	0.183	0.180
66	12/12/2018 9:01	0.182	0.185	0.184
67	12/12/2018 9:02	0.183	0.185	0.183
68	12/12/2018 9:03	0.186	0.188	0.187
69	12/12/2018 9:04	0.187	0.193	0.193
70	12/12/2018 9:05	0.197	0.201	0.198
71	12/12/2018 9:06	0.196	0.201	0.193
72	12/12/2018 9:07	0.191	0.193	0.190
73	12/12/2018 9:08	0.191	0.194	0.192
74	12/12/2018 9:09	0.193	0.201	0.201
75	12/12/2018 9:10	0.197	0.201	0.195
76	12/12/2018 9:11	0.205	0.211	0.201
77	12/12/2018 9:12	0.195	0.200	0.197
78	12/12/2018 9:13	0.198	0.201	0.201
79	12/12/2018 9:14	0.203	0.206	0.205
80	12/12/2018 9:15	0.202	0.206	0.202
81	12/12/2018 9:16	0.214	0.232	0.232
82	12/12/2018 9:17	0.224	0.232	0.230
83	12/12/2018 9:18	0.227	0.233	0.214
84	12/12/2018 9:19	0.217	0.224	0.217
85	12/12/2018 9:20	0.213	0.218	0.209
86	12/12/2018 9:21	0.209	0.213	0.210
87	12/12/2018 9:22	0.209	0.212	0.210
88	12/12/2018 9:23	0.208	0.215	0.208
89	12/12/2018 9:24	0.239	0.393	0.212
90	12/12/2018 9:25	0.212	0.215	0.213
91	12/12/2018 9:26	0.215	0.230	0.216
92	12/12/2018 9:27	0.214	0.219	0.213
93	12/12/2018 9:28	0.216	0.226	0.217
94	12/12/2018 9:29	0.214	0.217	0.215
95	12/12/2018 9:30	0.214	0.216	0.213
96	12/12/2018 9:31	0.215	0.220	0.211
97	12/12/2018 9:32	0.213	0.215	0.213
98	12/12/2018 9:33	0.213	0.217	0.213
99	12/12/2018 9:34	0.224	0.241	0.235

100	12/12/2018 9:35	0.232	0.239	0.239
101	12/12/2018 9:36	0.236	0.242	0.231
102	12/12/2018 9:37	0.226	0.231	0.224
103	12/12/2018 9:38	0.222	0.225	0.222
104	12/12/2018 9:39	0.222	0.226	0.221
105	12/12/2018 9:40	0.221	0.226	0.223
106	12/12/2018 9:41	0.222	0.224	0.223
107	12/12/2018 9:42	0.223	0.225	0.222
108	12/12/2018 9:43	0.223	0.226	0.224
109	12/12/2018 9:44	0.225	0.227	0.227
110	12/12/2018 9:45	0.341	0.442	0.367
111	12/12/2018 9:46	0.270	0.352	0.243
112	12/12/2018 9:47	0.266	0.298	0.264
113	12/12/2018 9:48	0.238	0.262	0.231
114	12/12/2018 9:49	0.228	0.231	0.227
115	12/12/2018 9:50	0.226	0.228	0.221
116	12/12/2018 9:51	0.223	0.226	0.223
117	12/12/2018 9:52	0.224	0.226	0.226
118	12/12/2018 9:53	0.224	0.226	0.223
119	12/12/2018 9:54	0.223	0.225	0.224
120	12/12/2018 9:55	0.224	0.226	0.225
121	12/12/2018 9:56	0.223	0.226	0.222
122	12/12/2018 9:57	0.224	0.226	0.225
123	12/12/2018 9:58	0.225	0.226	0.226
124	12/12/2018 9:59	0.225	0.228	0.227
125	12/12/2018 10:00	0.225	0.228	0.226
126	12/12/2018 10:01	0.225	0.228	0.225
127	12/12/2018 10:02	0.225	0.228	0.222
128	12/12/2018 10:03	0.223	0.225	0.223
129	12/12/2018 10:04	0.222	0.225	0.221
130	12/12/2018 10:05	0.223	0.224	0.222
131	12/12/2018 10:06	0.223	0.226	0.224
132	12/12/2018 10:07	0.224	0.226	0.224
133	12/12/2018 10:08	0.224	0.227	0.227
134	12/12/2018 10:09	0.224	0.228	0.224
135	12/12/2018 10:10	0.223	0.226	0.225
136	12/12/2018 10:11	0.228	0.239	0.225
137	12/12/2018 10:12	0.226	0.238	0.227
138	12/12/2018 10:13	0.337	0.602	0.278
139	12/12/2018 10:14	0.308	0.462	0.256
140	12/12/2018 10:15	0.243	0.255	0.242
141	12/12/2018 10:16	0.240	0.246	0.239
142	12/12/2018 10:17	0.232	0.241	0.228
143	12/12/2018 10:18	0.340	0.506	0.306
144	12/12/2018 10:19	0.366	0.468	0.438
145	12/12/2018 10:20	0.336	0.435	0.266
146	12/12/2018 10:21	0.255	0.267	0.252

147	12/12/2018 10:22	0.246	0.256	0.235
148	12/12/2018 10:23	0.231	0.235	0.232
149	12/12/2018 10:24	0.229	0.232	0.231
150	12/12/2018 10:25	0.229	0.232	0.229
151	12/12/2018 10:26	0.229	0.233	0.232
152	12/12/2018 10:27	0.231	0.236	0.234
153	12/12/2018 10:28	0.235	0.238	0.233
154	12/12/2018 10:29	0.240	0.246	0.238
155	12/12/2018 10:30	0.233	0.238	0.230
156	12/12/2018 10:31	0.227	0.230	0.227
157	12/12/2018 10:32	0.266	0.392	0.326
158	12/12/2018 10:33	0.308	0.419	0.272
159	12/12/2018 10:34	0.376	0.486	0.397
160	12/12/2018 10:35	0.351	0.450	0.298
161	12/12/2018 10:36	0.264	0.297	0.250
162	12/12/2018 10:37	0.255	0.259	0.256
163	12/12/2018 10:38	0.243	0.255	0.238
164	12/12/2018 10:39	0.237	0.245	0.234
165	12/12/2018 10:40	0.235	0.241	0.231
166	12/12/2018 10:41	0.236	0.267	0.267
167	12/12/2018 10:42	0.415	0.796	0.735
168	12/12/2018 10:43	0.413	0.726	0.287
169	12/12/2018 10:44	0.417	0.624	0.413
170	12/12/2018 10:45	0.289	0.381	0.278
171	12/12/2018 10:46	0.259	0.283	0.252
172	12/12/2018 10:47	0.254	0.265	0.248
173	12/12/2018 10:48	0.269	0.282	0.256
174	12/12/2018 10:49	0.247	0.254	0.251
175	12/12/2018 10:50	0.250	0.266	0.264
176	12/12/2018 10:51	0.260	0.268	0.265
177	12/12/2018 10:52	0.255	0.275	0.235
178	12/12/2018 10:53	0.238	0.247	0.247
179	12/12/2018 10:54	0.258	0.278	0.239
180	12/12/2018 10:55	0.245	0.257	0.247
181	12/12/2018 10:56	0.246	0.259	0.242
182	12/12/2018 10:57	0.240	0.247	0.234
183	12/12/2018 10:58	0.231	0.235	0.226
184	12/12/2018 10:59	0.226	0.227	0.227
185	12/12/2018 11:00	0.235	0.248	0.247
186	12/12/2018 11:01	0.241	0.248	0.241
187	12/12/2018 11:02	0.243	0.250	0.237
188	12/12/2018 11:03	0.239	0.245	0.243
189	12/12/2018 11:04	0.245	0.277	0.231
190	12/12/2018 11:05	0.228	0.231	0.228
191	12/12/2018 11:06	0.228	0.230	0.229
192	12/12/2018 11:07	0.229	0.231	0.228
193	12/12/2018 11:08	0.232	0.236	0.235

194	12/12/2018 11:09	0.238	0.243	0.243
195	12/12/2018 11:10	0.249	0.260	0.247
196	12/12/2018 11:11	0.251	0.269	0.269
197	12/12/2018 11:12	0.248	0.271	0.229
198	12/12/2018 11:13	0.228	0.231	0.231
199	12/12/2018 11:14	0.247	0.264	0.264
200	12/12/2018 11:15	0.267	0.279	0.255
201	12/12/2018 11:16	0.253	0.305	0.305
202	12/12/2018 11:17	0.255	0.305	0.233
203	12/12/2018 11:20	0.205	0.211	0.209
204	12/12/2018 11:21	0.217	0.222	0.220
205	12/12/2018 11:22	0.222	0.224	0.224
206	12/12/2018 11:23	0.222	0.227	0.221
207	12/12/2018 11:24	0.226	0.232	0.232
208	12/12/2018 11:25	0.234	0.242	0.237
209	12/12/2018 11:26	0.219	0.235	0.213
210	12/12/2018 11:27	0.213	0.215	0.214
211	12/12/2018 11:28	0.217	0.223	0.221
212	12/12/2018 11:29	0.220	0.223	0.217
213	12/12/2018 11:30	0.222	0.234	0.228
214	12/12/2018 11:31	0.221	0.226	0.221
215	12/12/2018 11:32	0.221	0.228	0.221
216	12/12/2018 11:33	0.223	0.228	0.226
217	12/12/2018 11:34	0.230	0.240	0.226
218	12/12/2018 11:35	0.227	0.232	0.221
219	12/12/2018 11:36	0.221	0.224	0.221
220	12/12/2018 11:37	0.219	0.222	0.220
221	12/12/2018 11:38	0.219	0.221	0.221
222	12/12/2018 11:39	0.223	0.226	0.223
223	12/12/2018 11:40	0.223	0.225	0.224
224	12/12/2018 11:41	0.222	0.224	0.222
225	12/12/2018 11:42	0.223	0.227	0.221
226	12/12/2018 11:43	0.220	0.224	0.222
227	12/12/2018 11:44	0.222	0.226	0.226
228	12/12/2018 11:45	0.225	0.229	0.223
229	12/12/2018 11:46	0.220	0.223	0.220
230	12/12/2018 11:47	0.218	0.220	0.219
231	12/12/2018 11:48	0.224	0.228	0.225
232	12/12/2018 11:49	0.226	0.229	0.229
233	12/12/2018 11:50	0.231	0.236	0.234



Upwind Dust Trak

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530163515  
 Test ID: 1  
 Test Abbreviation: Upwind\_100818  
 Start Date: 10/8/2018  
 Start Time: 9:39:33  
 Duration (dd:hh:mm:ss): 0:07:28:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 448  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.019  
 Minimum: 0.006  
 Time of Minimum: 16:55:33  
 Date of Minimum: 10/8/2018  
 Maximum: 0.051  
 Time of Maximum: 15:05:33  
 Date of Maximum: 10/8/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/8/2018	9:40:33	0.027
10/8/2018	9:41:33	0.026
10/8/2018	9:42:33	0.026
10/8/2018	9:43:33	0.026
10/8/2018	9:44:33	0.025
10/8/2018	9:45:33	0.025
10/8/2018	9:46:33	0.025
10/8/2018	9:47:33	0.025
10/8/2018	9:48:33	0.025
10/8/2018	9:49:33	0.025
10/8/2018	9:50:33	0.024
10/8/2018	9:51:33	0.024
10/8/2018	9:52:33	0.024
10/8/2018	9:53:33	0.024
10/8/2018	9:54:33	0.023
10/8/2018	9:55:33	0.023
10/8/2018	9:56:33	0.023
10/8/2018	9:57:33	0.023
10/8/2018	9:58:33	0.023
10/8/2018	9:59:33	0.023
10/8/2018	10:00:33	0.024

10/8/2018	10:01:33	0.026
10/8/2018	10:02:33	0.027
10/8/2018	10:03:33	0.026
10/8/2018	10:04:33	0.025
10/8/2018	10:05:33	0.025
10/8/2018	10:06:33	0.025
10/8/2018	10:07:33	0.024
10/8/2018	10:08:33	0.024
10/8/2018	10:09:33	0.023
10/8/2018	10:10:33	0.024
10/8/2018	10:11:33	0.024
10/8/2018	10:12:33	0.024
10/8/2018	10:13:33	0.023
10/8/2018	10:14:33	0.024
10/8/2018	10:15:33	0.023
10/8/2018	10:16:33	0.024
10/8/2018	10:17:33	0.023
10/8/2018	10:18:33	0.024
10/8/2018	10:19:33	0.024
10/8/2018	10:20:33	0.024
10/8/2018	10:21:33	0.023
10/8/2018	10:22:33	0.023
10/8/2018	10:23:33	0.023
10/8/2018	10:24:33	0.023
10/8/2018	10:25:33	0.022
10/8/2018	10:26:33	0.022
10/8/2018	10:27:33	0.022
10/8/2018	10:28:33	0.022
10/8/2018	10:29:33	0.022
10/8/2018	10:30:33	0.022
10/8/2018	10:31:33	0.022
10/8/2018	10:32:33	0.022
10/8/2018	10:33:33	0.02
10/8/2018	10:34:33	0.019
10/8/2018	10:35:33	0.02
10/8/2018	10:36:33	0.02
10/8/2018	10:37:33	0.019
10/8/2018	10:38:33	0.02
10/8/2018	10:39:33	0.019
10/8/2018	10:40:33	0.02
10/8/2018	10:41:33	0.02
10/8/2018	10:42:33	0.019
10/8/2018	10:43:33	0.019
10/8/2018	10:44:33	0.02
10/8/2018	10:45:33	0.02
10/8/2018	10:46:33	0.019
10/8/2018	10:47:33	0.02



10/8/2018	10:48:33	0.02
10/8/2018	10:49:33	0.02
10/8/2018	10:50:33	0.019
10/8/2018	10:51:33	0.02
10/8/2018	10:52:33	0.019
10/8/2018	10:53:33	0.019
10/8/2018	10:54:33	0.02
10/8/2018	10:55:33	0.02
10/8/2018	10:56:33	0.019
10/8/2018	10:57:33	0.019
10/8/2018	10:58:33	0.018
10/8/2018	10:59:33	0.017
10/8/2018	11:00:33	0.017
10/8/2018	11:01:33	0.017
10/8/2018	11:02:33	0.017
10/8/2018	11:03:33	0.018
10/8/2018	11:04:33	0.018
10/8/2018	11:05:33	0.018
10/8/2018	11:06:33	0.018
10/8/2018	11:07:33	0.019
10/8/2018	11:08:33	0.019
10/8/2018	11:09:33	0.019
10/8/2018	11:10:33	0.019
10/8/2018	11:11:33	0.019
10/8/2018	11:12:33	0.019
10/8/2018	11:13:33	0.019
10/8/2018	11:14:33	0.019
10/8/2018	11:15:33	0.018
10/8/2018	11:16:33	0.019
10/8/2018	11:17:33	0.019
10/8/2018	11:18:33	0.019
10/8/2018	11:19:33	0.018
10/8/2018	11:20:33	0.018
10/8/2018	11:21:33	0.019
10/8/2018	11:22:33	0.018
10/8/2018	11:23:33	0.018
10/8/2018	11:24:33	0.018
10/8/2018	11:25:33	0.019
10/8/2018	11:26:33	0.019
10/8/2018	11:27:33	0.019
10/8/2018	11:28:33	0.019
10/8/2018	11:29:33	0.019
10/8/2018	11:30:33	0.019
10/8/2018	11:31:33	0.019
10/8/2018	11:32:33	0.02
10/8/2018	11:33:33	0.019
10/8/2018	11:34:33	0.02

10/8/2018	11:35:33	0.023
10/8/2018	11:36:33	0.021
10/8/2018	11:37:33	0.021
10/8/2018	11:38:33	0.021
10/8/2018	11:39:33	0.02
10/8/2018	11:40:33	0.02
10/8/2018	11:41:33	0.02
10/8/2018	11:42:33	0.02
10/8/2018	11:43:33	0.02
10/8/2018	11:44:33	0.019
10/8/2018	11:45:33	0.019
10/8/2018	11:46:33	0.02
10/8/2018	11:47:33	0.019
10/8/2018	11:48:33	0.018
10/8/2018	11:49:33	0.019
10/8/2018	11:50:33	0.019
10/8/2018	11:51:33	0.02
10/8/2018	11:52:33	0.02
10/8/2018	11:53:33	0.019
10/8/2018	11:54:33	0.02
10/8/2018	11:55:33	0.018
10/8/2018	11:56:33	0.018
10/8/2018	11:57:33	0.018
10/8/2018	11:58:33	0.018
10/8/2018	11:59:33	0.018
10/8/2018	12:00:33	0.018
10/8/2018	12:01:33	0.017
10/8/2018	12:02:33	0.016
10/8/2018	12:03:33	0.017
10/8/2018	12:04:33	0.016
10/8/2018	12:05:33	0.018
10/8/2018	12:06:33	0.018
10/8/2018	12:07:33	0.017
10/8/2018	12:08:33	0.016
10/8/2018	12:09:33	0.016
10/8/2018	12:10:33	0.018
10/8/2018	12:11:33	0.018
10/8/2018	12:12:33	0.018
10/8/2018	12:13:33	0.017
10/8/2018	12:14:33	0.017
10/8/2018	12:15:33	0.018
10/8/2018	12:16:33	0.018
10/8/2018	12:17:33	0.017
10/8/2018	12:18:33	0.017
10/8/2018	12:19:33	0.017
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10/8/2018	12:23:33	0.017
10/8/2018	12:24:33	0.017
10/8/2018	12:25:33	0.017
10/8/2018	12:26:33	0.018
10/8/2018	12:27:33	0.017
10/8/2018	12:28:33	0.017
10/8/2018	12:29:33	0.017
10/8/2018	12:30:33	0.017
10/8/2018	12:31:33	0.017
10/8/2018	12:32:33	0.017
10/8/2018	12:33:33	0.017
10/8/2018	12:34:33	0.017
10/8/2018	12:35:33	0.017
10/8/2018	12:36:33	0.016
10/8/2018	12:37:33	0.016
10/8/2018	12:38:33	0.016
10/8/2018	12:39:33	0.016
10/8/2018	12:40:33	0.017
10/8/2018	12:41:33	0.018
10/8/2018	12:42:33	0.023
10/8/2018	12:43:33	0.018
10/8/2018	12:44:33	0.016
10/8/2018	12:45:33	0.017
10/8/2018	12:46:33	0.017
10/8/2018	12:47:33	0.016
10/8/2018	12:48:33	0.017
10/8/2018	12:49:33	0.017
10/8/2018	12:50:33	0.017
10/8/2018	12:51:33	0.017
10/8/2018	12:52:33	0.016
10/8/2018	12:53:33	0.017
10/8/2018	12:54:33	0.017
10/8/2018	12:55:33	0.017
10/8/2018	12:56:33	0.017
10/8/2018	12:57:33	0.017
10/8/2018	12:58:33	0.017
10/8/2018	12:59:33	0.017
10/8/2018	13:00:33	0.018
10/8/2018	13:01:33	0.018
10/8/2018	13:02:33	0.017
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10/8/2018	13:04:33	0.022
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10/8/2018	13:06:33	0.02
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10/8/2018	13:08:33	0.021

10/8/2018	13:09:33	0.021
10/8/2018	13:10:33	0.021
10/8/2018	13:11:33	0.021
10/8/2018	13:12:33	0.022
10/8/2018	13:13:33	0.022
10/8/2018	13:14:33	0.024
10/8/2018	13:15:33	0.029
10/8/2018	13:16:33	0.026
10/8/2018	13:17:33	0.025
10/8/2018	13:18:33	0.025
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10/8/2018	13:23:33	0.027
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10/8/2018	13:29:33	0.027
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10/8/2018	13:31:33	0.023
10/8/2018	13:32:33	0.023
10/8/2018	13:33:33	0.022
10/8/2018	13:34:33	0.022
10/8/2018	13:35:33	0.021
10/8/2018	13:36:33	0.021
10/8/2018	13:37:33	0.02
10/8/2018	13:38:33	0.02
10/8/2018	13:39:33	0.02
10/8/2018	13:40:33	0.02
10/8/2018	13:41:33	0.021
10/8/2018	13:42:33	0.02
10/8/2018	13:43:33	0.019
10/8/2018	13:44:33	0.019
10/8/2018	13:45:33	0.019
10/8/2018	13:46:33	0.019
10/8/2018	13:47:33	0.019
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10/8/2018	13:50:33	0.019
10/8/2018	13:51:33	0.019
10/8/2018	13:52:33	0.019
10/8/2018	13:53:33	0.018
10/8/2018	13:54:33	0.03
10/8/2018	13:55:33	0.026

10/8/2018	13:56:33	0.02
10/8/2018	13:57:33	0.018
10/8/2018	13:58:33	0.018
10/8/2018	13:59:33	0.019
10/8/2018	14:00:33	0.018
10/8/2018	14:01:33	0.018
10/8/2018	14:02:33	0.019
10/8/2018	14:03:33	0.019
10/8/2018	14:04:33	0.019
10/8/2018	14:05:33	0.02
10/8/2018	14:06:33	0.021
10/8/2018	14:07:33	0.019
10/8/2018	14:08:33	0.019
10/8/2018	14:09:33	0.018
10/8/2018	14:10:33	0.018
10/8/2018	14:11:33	0.019
10/8/2018	14:12:33	0.019
10/8/2018	14:13:33	0.021
10/8/2018	14:14:33	0.02
10/8/2018	14:15:33	0.025
10/8/2018	14:16:33	0.019
10/8/2018	14:17:33	0.018
10/8/2018	14:18:33	0.019
10/8/2018	14:19:33	0.019
10/8/2018	14:20:33	0.019
10/8/2018	14:21:33	0.018
10/8/2018	14:22:33	0.018
10/8/2018	14:23:33	0.019
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10/8/2018	14:25:33	0.019
10/8/2018	14:26:33	0.019
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10/8/2018	14:28:33	0.02
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10/8/2018	14:30:33	0.019
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10/8/2018	14:32:33	0.019
10/8/2018	14:33:33	0.02
10/8/2018	14:34:33	0.02
10/8/2018	14:35:33	0.022
10/8/2018	14:36:33	0.02
10/8/2018	14:37:33	0.02
10/8/2018	14:38:33	0.022
10/8/2018	14:39:33	0.022
10/8/2018	14:40:33	0.021
10/8/2018	14:41:33	0.022
10/8/2018	14:42:33	0.02

10/8/2018	14:43:33	0.021
10/8/2018	14:44:33	0.021
10/8/2018	14:45:33	0.021
10/8/2018	14:46:33	0.022
10/8/2018	14:47:33	0.021
10/8/2018	14:48:33	0.02
10/8/2018	14:49:33	0.021
10/8/2018	14:50:33	0.021
10/8/2018	14:51:33	0.021
10/8/2018	14:52:33	0.022
10/8/2018	14:53:33	0.021
10/8/2018	14:54:33	0.022
10/8/2018	14:55:33	0.021
10/8/2018	14:56:33	0.021
10/8/2018	14:57:33	0.021
10/8/2018	14:58:33	0.022
10/8/2018	14:59:33	0.023
10/8/2018	15:00:33	0.023
10/8/2018	15:01:33	0.022
10/8/2018	15:02:33	0.021
10/8/2018	15:03:33	0.021
10/8/2018	15:04:33	0.022
10/8/2018	15:05:33	0.051
10/8/2018	15:06:33	0.022
10/8/2018	15:07:33	0.023
10/8/2018	15:08:33	0.022
10/8/2018	15:09:33	0.023
10/8/2018	15:10:33	0.022
10/8/2018	15:11:33	0.022
10/8/2018	15:12:33	0.022
10/8/2018	15:13:33	0.022
10/8/2018	15:14:33	0.022
10/8/2018	15:15:33	0.022
10/8/2018	15:16:33	0.027
10/8/2018	15:17:33	0.028
10/8/2018	15:18:33	0.023
10/8/2018	15:19:33	0.023
10/8/2018	15:20:33	0.023
10/8/2018	15:21:33	0.024
10/8/2018	15:22:33	0.023
10/8/2018	15:23:33	0.023
10/8/2018	15:24:33	0.024
10/8/2018	15:25:33	0.023
10/8/2018	15:26:33	0.023
10/8/2018	15:27:33	0.023
10/8/2018	15:28:33	0.024
10/8/2018	15:29:33	0.023

10/8/2018	15:30:33	0.023
10/8/2018	15:31:33	0.029
10/8/2018	15:32:33	0.027
10/8/2018	15:33:33	0.022
10/8/2018	15:34:33	0.024
10/8/2018	15:35:33	0.026
10/8/2018	15:36:33	0.024
10/8/2018	15:37:33	0.025
10/8/2018	15:38:33	0.025
10/8/2018	15:39:33	0.026
10/8/2018	15:40:33	0.025
10/8/2018	15:41:33	0.022
10/8/2018	15:42:33	0.022
10/8/2018	15:43:33	0.023
10/8/2018	15:44:33	0.024
10/8/2018	15:45:33	0.023
10/8/2018	15:46:33	0.023
10/8/2018	15:47:33	0.023
10/8/2018	15:48:33	0.022
10/8/2018	15:49:33	0.023
10/8/2018	15:50:33	0.022
10/8/2018	15:51:33	0.026
10/8/2018	15:52:33	0.027
10/8/2018	15:53:33	0.025
10/8/2018	15:54:33	0.023
10/8/2018	15:55:33	0.024
10/8/2018	15:56:33	0.025
10/8/2018	15:57:33	0.024
10/8/2018	15:58:33	0.03
10/8/2018	15:59:33	0.023
10/8/2018	16:00:33	0.019
10/8/2018	16:01:33	0.018
10/8/2018	16:02:33	0.018
10/8/2018	16:03:33	0.018
10/8/2018	16:04:33	0.016
10/8/2018	16:05:33	0.016
10/8/2018	16:06:33	0.018
10/8/2018	16:07:33	0.018
10/8/2018	16:08:33	0.015
10/8/2018	16:09:33	0.034
10/8/2018	16:10:33	0.011
10/8/2018	16:11:33	0.019
10/8/2018	16:12:33	0.018
10/8/2018	16:13:33	0.027
10/8/2018	16:14:33	0.022
10/8/2018	16:15:33	0.017
10/8/2018	16:16:33	0.025

10/8/2018	16:17:33	0.009
10/8/2018	16:18:33	0.009
10/8/2018	16:19:33	0.008
10/8/2018	16:20:33	0.008
10/8/2018	16:21:33	0.009
10/8/2018	16:22:33	0.008
10/8/2018	16:23:33	0.008
10/8/2018	16:24:33	0.008
10/8/2018	16:25:33	0.008
10/8/2018	16:26:33	0.008
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10/8/2018	16:28:33	0.007
10/8/2018	16:29:33	0.008
10/8/2018	16:30:33	0.008
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10/8/2018	16:32:33	0.008
10/8/2018	16:33:33	0.009
10/8/2018	16:34:33	0.008
10/8/2018	16:35:33	0.008
10/8/2018	16:36:33	0.008
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10/8/2018	16:39:33	0.007
10/8/2018	16:40:33	0.008
10/8/2018	16:41:33	0.007
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10/8/2018	16:44:33	0.008
10/8/2018	16:45:33	0.008
10/8/2018	16:46:33	0.01
10/8/2018	16:47:33	0.007
10/8/2018	16:48:33	0.007
10/8/2018	16:49:33	0.007
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10/8/2018	16:51:33	0.007
10/8/2018	16:52:33	0.007
10/8/2018	16:53:33	0.007
10/8/2018	16:54:33	0.007
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10/8/2018	16:57:33	0.007
10/8/2018	16:58:33	0.007
10/8/2018	16:59:33	0.012
10/8/2018	17:00:33	0.007
10/8/2018	17:01:33	0.007
10/8/2018	17:02:33	0.007
10/8/2018	17:03:33	0.007



10/8/2018	17:04:33	0.007
10/8/2018	17:05:33	0.008
10/8/2018	17:06:33	0.007
10/8/2018	17:07:33	0.007

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530163515  
Test ID: 2  
Test Abbreviation: Upwind\_100918  
Start Date: 10/9/2018  
Start Time: 8:01:53  
Duration (dd:hh:mm:ss): 0:08:45:00  
Log Interval (mm:ss): 1:00  
Number of points: 525  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.012  
Minimum: 0.009  
Time of Minimum: 10:33:53  
Date of Minimum: 10/9/2018  
Maximum: 0.022  
Time of Maximum: 11:29:53  
Date of Maximum: 10/9/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
10/9/2018	8:02:53	0.015
10/9/2018	8:03:53	0.016
10/9/2018	8:04:53	0.015
10/9/2018	8:05:53	0.015
10/9/2018	8:06:53	0.015
10/9/2018	8:07:53	0.016
10/9/2018	8:08:53	0.015
10/9/2018	8:09:53	0.015
10/9/2018	8:10:53	0.015
10/9/2018	8:11:53	0.015
10/9/2018	8:12:53	0.015
10/9/2018	8:13:53	0.014
10/9/2018	8:14:53	0.015
10/9/2018	8:15:53	0.014
10/9/2018	8:16:53	0.014
10/9/2018	8:17:53	0.014
10/9/2018	8:18:53	0.014
10/9/2018	8:19:53	0.013
10/9/2018	8:20:53	0.013
10/9/2018	8:21:53	0.013
10/9/2018	8:22:53	0.013

10/9/2018	8:23:53	0.013
10/9/2018	8:24:53	0.014
10/9/2018	8:25:53	0.014
10/9/2018	8:26:53	0.014
10/9/2018	8:27:53	0.013
10/9/2018	8:28:53	0.013
10/9/2018	8:29:53	0.013
10/9/2018	8:30:53	0.014
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10/9/2018	8:33:53	0.014
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10/9/2018	8:35:53	0.013
10/9/2018	8:36:53	0.013
10/9/2018	8:37:53	0.013
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10/9/2018	8:42:53	0.014
10/9/2018	8:43:53	0.014
10/9/2018	8:44:53	0.015
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10/9/2018	8:53:53	0.014
10/9/2018	8:54:53	0.013
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10/9/2018	8:56:53	0.013
10/9/2018	8:57:53	0.014
10/9/2018	8:58:53	0.013
10/9/2018	8:59:53	0.013
10/9/2018	9:00:53	0.013
10/9/2018	9:01:53	0.013
10/9/2018	9:02:53	0.013
10/9/2018	9:03:53	0.012
10/9/2018	9:04:53	0.013
10/9/2018	9:05:53	0.012
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10/9/2018	9:08:53	0.012
10/9/2018	9:09:53	0.012

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10/9/2018	9:35:53	0.011
10/9/2018	9:36:53	0.011
10/9/2018	9:37:53	0.011
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10/9/2018	9:39:53	0.013
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10/9/2018	9:42:53	0.011
10/9/2018	9:43:53	0.011
10/9/2018	9:44:53	0.011
10/9/2018	9:45:53	0.011
10/9/2018	9:46:53	0.011
10/9/2018	9:47:53	0.012
10/9/2018	9:48:53	0.01
10/9/2018	9:49:53	0.011
10/9/2018	9:50:53	0.011
10/9/2018	9:51:53	0.011
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10/9/2018	9:54:53	0.011
10/9/2018	9:55:53	0.012
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10/9/2018	9:59:53	0.011
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10/9/2018	10:03:53	0.011
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10/9/2018	10:05:53	0.012
10/9/2018	10:06:53	0.012
10/9/2018	10:07:53	0.012
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10/9/2018	10:10:53	0.012
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10/9/2018	10:14:53	0.013
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10/9/2018	10:16:53	0.015
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10/9/2018	10:20:53	0.011
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10/9/2018	10:23:53	0.01
10/9/2018	10:24:53	0.01
10/9/2018	10:25:53	0.011
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10/9/2018	10:49:53	0.01
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10/9/2018	10:53:53	0.011
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10/9/2018	11:04:53	0.01
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10/9/2018	12:27:53	0.009
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10/9/2018	12:49:53	0.01
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10/9/2018	12:58:53	0.011
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10/9/2018	13:03:53	0.01
10/9/2018	13:04:53	0.011



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10/9/2018	14:00:53	0.011
10/9/2018	14:01:53	0.011
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10/9/2018	14:03:53	0.011
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10/9/2018	14:33:53	0.013
10/9/2018	14:34:53	0.013
10/9/2018	14:35:53	0.013
10/9/2018	14:36:53	0.012
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10/9/2018	14:38:53	0.013

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10/9/2018	14:46:53	0.013
10/9/2018	14:47:53	0.013
10/9/2018	14:48:53	0.013
10/9/2018	14:49:53	0.013
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10/9/2018	14:56:53	0.014
10/9/2018	14:57:53	0.014
10/9/2018	14:58:53	0.014
10/9/2018	14:59:53	0.013
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10/9/2018	15:02:53	0.014
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10/9/2018	15:04:53	0.014
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10/9/2018	15:07:53	0.016
10/9/2018	15:08:53	0.015
10/9/2018	15:09:53	0.014
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10/9/2018	16:42:53	0.015
10/9/2018	16:43:53	0.015
10/9/2018	16:44:53	0.015
10/9/2018	16:45:53	0.017
10/9/2018	16:46:53	0.017

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530163515  
Test ID: 3  
Test Abbreviation: Upwind\_101018  
Start Date: 10/10/2018  
Start Time: 8:42:15  
Duration (dd:hh:mm:ss): 0:07:37:00  
Log Interval (mm:ss): 1:00  
Number of points: 457  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.027  
Minimum: 0.012  
Time of Minimum: 15:58:15  
Date of Minimum: 10/10/2018  
Maximum: 0.092  
Time of Maximum: 8:49:15  
Date of Maximum: 10/10/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/10/2018	8:43:15	0.055
10/10/2018	8:44:15	0.052
10/10/2018	8:45:15	0.061
10/10/2018	8:46:15	0.06
10/10/2018	8:47:15	0.049
10/10/2018	8:48:15	0.063
10/10/2018	8:49:15	0.092
10/10/2018	8:50:15	0.061
10/10/2018	8:51:15	0.052
10/10/2018	8:52:15	0.052
10/10/2018	8:53:15	0.05
10/10/2018	8:54:15	0.05
10/10/2018	8:55:15	0.052
10/10/2018	8:56:15	0.052
10/10/2018	8:57:15	0.05
10/10/2018	8:58:15	0.049
10/10/2018	8:59:15	0.047
10/10/2018	9:00:15	0.047
10/10/2018	9:01:15	0.046
10/10/2018	9:02:15	0.047
10/10/2018	9:03:15	0.046

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10/10/2018	9:05:15	0.044
10/10/2018	9:06:15	0.047
10/10/2018	9:07:15	0.053
10/10/2018	9:08:15	0.047
10/10/2018	9:09:15	0.045
10/10/2018	9:10:15	0.046
10/10/2018	9:11:15	0.047
10/10/2018	9:12:15	0.046
10/10/2018	9:13:15	0.043
10/10/2018	9:14:15	0.043
10/10/2018	9:15:15	0.044
10/10/2018	9:16:15	0.042
10/10/2018	9:17:15	0.041
10/10/2018	9:18:15	0.042
10/10/2018	9:19:15	0.042
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10/10/2018	9:32:15	0.037
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10/10/2018	9:45:15	0.039
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10/10/2018	10:44:15	0.041
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10/10/2018	10:47:15	0.037
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10/10/2018	10:58:15	0.041
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10/10/2018	13:10:15	0.022
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10/10/2018	14:31:15	0.021
10/10/2018	14:32:15	0.018

10/10/2018	14:33:15	0.018
10/10/2018	14:34:15	0.019
10/10/2018	14:35:15	0.02
10/10/2018	14:36:15	0.018
10/10/2018	14:37:15	0.018
10/10/2018	14:38:15	0.018
10/10/2018	14:39:15	0.018
10/10/2018	14:40:15	0.018
10/10/2018	14:41:15	0.018
10/10/2018	14:42:15	0.018
10/10/2018	14:43:15	0.018
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10/10/2018	14:46:15	0.017
10/10/2018	14:47:15	0.017
10/10/2018	14:48:15	0.018
10/10/2018	14:49:15	0.017
10/10/2018	14:50:15	0.02
10/10/2018	14:51:15	0.021
10/10/2018	14:52:15	0.02
10/10/2018	14:53:15	0.02
10/10/2018	14:54:15	0.019
10/10/2018	14:55:15	0.018
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10/10/2018	14:57:15	0.019
10/10/2018	14:58:15	0.017
10/10/2018	14:59:15	0.017
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10/10/2018	15:01:15	0.017
10/10/2018	15:02:15	0.017
10/10/2018	15:03:15	0.022
10/10/2018	15:04:15	0.027
10/10/2018	15:05:15	0.024
10/10/2018	15:06:15	0.018
10/10/2018	15:07:15	0.017
10/10/2018	15:08:15	0.017
10/10/2018	15:09:15	0.017
10/10/2018	15:10:15	0.017
10/10/2018	15:11:15	0.017
10/10/2018	15:12:15	0.018
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10/10/2018	15:14:15	0.017
10/10/2018	15:15:15	0.019
10/10/2018	15:16:15	0.017
10/10/2018	15:17:15	0.017
10/10/2018	15:18:15	0.017
10/10/2018	15:19:15	0.016

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10/10/2018	15:23:15	0.016
10/10/2018	15:24:15	0.014
10/10/2018	15:25:15	0.016
10/10/2018	15:26:15	0.015
10/10/2018	15:27:15	0.015
10/10/2018	15:28:15	0.018
10/10/2018	15:29:15	0.017
10/10/2018	15:30:15	0.016
10/10/2018	15:31:15	0.015
10/10/2018	15:32:15	0.014
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10/10/2018	15:34:15	0.016
10/10/2018	15:35:15	0.014
10/10/2018	15:36:15	0.018
10/10/2018	15:37:15	0.016
10/10/2018	15:38:15	0.015
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10/10/2018	15:44:15	0.014
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10/10/2018	15:52:15	0.014
10/10/2018	15:53:15	0.015
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10/10/2018	15:55:15	0.016
10/10/2018	15:56:15	0.014
10/10/2018	15:57:15	0.013
10/10/2018	15:58:15	0.012
10/10/2018	15:59:15	0.012
10/10/2018	16:00:15	0.013
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10/10/2018	16:02:15	0.014
10/10/2018	16:03:15	0.014
10/10/2018	16:04:15	0.014
10/10/2018	16:05:15	0.014
10/10/2018	16:06:15	0.014

10/10/2018	16:07:15	0.013
10/10/2018	16:08:15	0.014
10/10/2018	16:09:15	0.013
10/10/2018	16:10:15	0.013
10/10/2018	16:11:15	0.014
10/10/2018	16:12:15	0.014
10/10/2018	16:13:15	0.013
10/10/2018	16:14:15	0.013
10/10/2018	16:15:15	0.012



TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530163515  
 Test ID: 4  
 Test Abbreviation: Upwind\_101118  
 Start Date: 10/11/2018  
 Start Time: 7:59:31  
 Duration (dd:hh:mm:ss): 0:08:40:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 520  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.018  
 Minimum: 0.008  
 Time of Minimum: 15:05:31  
 Date of Minimum: 10/11/2018  
 Maximum: 0.036  
 Time of Maximum: 12:41:31  
 Date of Maximum: 10/11/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/11/2018	8:00:31	0.025
10/11/2018	8:01:31	0.028
10/11/2018	8:02:31	0.03
10/11/2018	8:03:31	0.03
10/11/2018	8:04:31	0.033
10/11/2018	8:05:31	0.032
10/11/2018	8:06:31	0.033
10/11/2018	8:07:31	0.034
10/11/2018	8:08:31	0.034
10/11/2018	8:09:31	0.034
10/11/2018	8:10:31	0.032
10/11/2018	8:11:31	0.034
10/11/2018	8:12:31	0.033
10/11/2018	8:13:31	0.031
10/11/2018	8:14:31	0.031
10/11/2018	8:15:31	0.03
10/11/2018	8:16:31	0.029
10/11/2018	8:17:31	0.029
10/11/2018	8:18:31	0.03
10/11/2018	8:19:31	0.028
10/11/2018	8:20:31	0.027

10/11/2018	8:21:31	0.027
10/11/2018	8:22:31	0.026
10/11/2018	8:23:31	0.027
10/11/2018	8:24:31	0.029
10/11/2018	8:25:31	0.027
10/11/2018	8:26:31	0.033
10/11/2018	8:27:31	0.033
10/11/2018	8:28:31	0.028
10/11/2018	8:29:31	0.026
10/11/2018	8:30:31	0.028
10/11/2018	8:31:31	0.026
10/11/2018	8:32:31	0.026
10/11/2018	8:33:31	0.026
10/11/2018	8:34:31	0.024
10/11/2018	8:35:31	0.025
10/11/2018	8:36:31	0.026
10/11/2018	8:37:31	0.025
10/11/2018	8:38:31	0.024
10/11/2018	8:39:31	0.024
10/11/2018	8:40:31	0.024
10/11/2018	8:41:31	0.025
10/11/2018	8:42:31	0.024
10/11/2018	8:43:31	0.025
10/11/2018	8:44:31	0.023
10/11/2018	8:45:31	0.023
10/11/2018	8:46:31	0.023
10/11/2018	8:47:31	0.022
10/11/2018	8:48:31	0.022
10/11/2018	8:49:31	0.024
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10/11/2018	8:51:31	0.023
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10/11/2018	8:53:31	0.022
10/11/2018	8:54:31	0.022
10/11/2018	8:55:31	0.023
10/11/2018	8:56:31	0.023
10/11/2018	8:57:31	0.022
10/11/2018	8:58:31	0.022
10/11/2018	8:59:31	0.022
10/11/2018	9:00:31	0.023
10/11/2018	9:01:31	0.022
10/11/2018	9:02:31	0.022
10/11/2018	9:03:31	0.023
10/11/2018	9:04:31	0.022
10/11/2018	9:05:31	0.021
10/11/2018	9:06:31	0.021
10/11/2018	9:07:31	0.021

10/11/2018	9:08:31	0.021
10/11/2018	9:09:31	0.02
10/11/2018	9:10:31	0.02
10/11/2018	9:11:31	0.022
10/11/2018	9:12:31	0.021
10/11/2018	9:13:31	0.022
10/11/2018	9:14:31	0.021
10/11/2018	9:15:31	0.021
10/11/2018	9:16:31	0.02
10/11/2018	9:17:31	0.02
10/11/2018	9:18:31	0.021
10/11/2018	9:19:31	0.021
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10/11/2018	9:22:31	0.02
10/11/2018	9:23:31	0.02
10/11/2018	9:24:31	0.021
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10/11/2018	9:27:31	0.021
10/11/2018	9:28:31	0.021
10/11/2018	9:29:31	0.02
10/11/2018	9:30:31	0.02
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10/11/2018	9:33:31	0.021
10/11/2018	9:34:31	0.021
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10/11/2018	9:37:31	0.02
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10/11/2018	9:40:31	0.019
10/11/2018	9:41:31	0.019
10/11/2018	9:42:31	0.019
10/11/2018	9:43:31	0.019
10/11/2018	9:44:31	0.019
10/11/2018	9:45:31	0.019
10/11/2018	9:46:31	0.02
10/11/2018	9:47:31	0.02
10/11/2018	9:48:31	0.019
10/11/2018	9:49:31	0.021
10/11/2018	9:50:31	0.02
10/11/2018	9:51:31	0.018
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10/11/2018	9:53:31	0.019
10/11/2018	9:54:31	0.019

10/11/2018	9:55:31	0.019
10/11/2018	9:56:31	0.02
10/11/2018	9:57:31	0.019
10/11/2018	9:58:31	0.018
10/11/2018	9:59:31	0.019
10/11/2018	10:00:31	0.018
10/11/2018	10:01:31	0.018
10/11/2018	10:02:31	0.019
10/11/2018	10:03:31	0.019
10/11/2018	10:04:31	0.019
10/11/2018	10:05:31	0.019
10/11/2018	10:06:31	0.019
10/11/2018	10:07:31	0.018
10/11/2018	10:08:31	0.019
10/11/2018	10:09:31	0.019
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10/11/2018	10:11:31	0.022
10/11/2018	10:12:31	0.02
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10/11/2018	10:14:31	0.018
10/11/2018	10:15:31	0.018
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10/11/2018	10:33:31	0.018
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10/11/2018	11:54:31	0.022
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10/11/2018	11:59:31	0.02
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10/11/2018	12:07:31	0.02
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10/11/2018	12:25:31	0.021
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10/11/2018	12:27:31	0.021
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10/11/2018	12:35:31	0.021
10/11/2018	12:36:31	0.021
10/11/2018	12:37:31	0.021
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10/11/2018	12:55:31	0.02
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10/11/2018	12:57:31	0.019
10/11/2018	12:58:31	0.019
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10/11/2018	13:05:31	0.02
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10/11/2018	13:07:31	0.021
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10/11/2018	13:10:31	0.022
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10/11/2018	13:12:31	0.02
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10/11/2018	13:18:31	0.022
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10/11/2018	13:28:31	0.023
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10/11/2018	13:31:31	0.021
10/11/2018	13:32:31	0.021
10/11/2018	13:33:31	0.022
10/11/2018	13:34:31	0.022
10/11/2018	13:35:31	0.025
10/11/2018	13:36:31	0.025
10/11/2018	13:37:31	0.024
10/11/2018	13:38:31	0.025
10/11/2018	13:39:31	0.023
10/11/2018	13:40:31	0.023
10/11/2018	13:41:31	0.023
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10/11/2018	13:43:31	0.023
10/11/2018	13:44:31	0.024
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10/11/2018	13:48:31	0.023
10/11/2018	13:49:31	0.021



10/11/2018	13:50:31	0.02
10/11/2018	13:51:31	0.019
10/11/2018	13:52:31	0.018
10/11/2018	13:53:31	0.018
10/11/2018	13:54:31	0.018
10/11/2018	13:55:31	0.017
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10/11/2018	13:57:31	0.018
10/11/2018	13:58:31	0.018
10/11/2018	13:59:31	0.017
10/11/2018	14:00:31	0.017
10/11/2018	14:01:31	0.017
10/11/2018	14:02:31	0.016
10/11/2018	14:03:31	0.017
10/11/2018	14:04:31	0.016
10/11/2018	14:05:31	0.017
10/11/2018	14:06:31	0.017
10/11/2018	14:07:31	0.016
10/11/2018	14:08:31	0.016
10/11/2018	14:09:31	0.02
10/11/2018	14:10:31	0.017
10/11/2018	14:11:31	0.017
10/11/2018	14:12:31	0.017
10/11/2018	14:13:31	0.017
10/11/2018	14:14:31	0.016
10/11/2018	14:15:31	0.016
10/11/2018	14:16:31	0.016
10/11/2018	14:17:31	0.021
10/11/2018	14:18:31	0.02
10/11/2018	14:19:31	0.014
10/11/2018	14:20:31	0.014
10/11/2018	14:21:31	0.014
10/11/2018	14:22:31	0.013
10/11/2018	14:23:31	0.013
10/11/2018	14:24:31	0.013
10/11/2018	14:25:31	0.013
10/11/2018	14:26:31	0.013
10/11/2018	14:27:31	0.015
10/11/2018	14:28:31	0.015
10/11/2018	14:29:31	0.013
10/11/2018	14:30:31	0.013
10/11/2018	14:31:31	0.013
10/11/2018	14:32:31	0.011
10/11/2018	14:33:31	0.011
10/11/2018	14:34:31	0.012
10/11/2018	14:35:31	0.012
10/11/2018	14:36:31	0.012

10/11/2018	14:37:31	0.013
10/11/2018	14:38:31	0.012
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10/11/2018	14:43:31	0.012
10/11/2018	14:44:31	0.012
10/11/2018	14:45:31	0.013
10/11/2018	14:46:31	0.012
10/11/2018	14:47:31	0.012
10/11/2018	14:48:31	0.012
10/11/2018	14:49:31	0.011
10/11/2018	14:50:31	0.011
10/11/2018	14:51:31	0.011
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10/11/2018	14:54:31	0.01
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10/11/2018	14:56:31	0.01
10/11/2018	14:57:31	0.009
10/11/2018	14:58:31	0.009
10/11/2018	14:59:31	0.01
10/11/2018	15:00:31	0.009
10/11/2018	15:01:31	0.009
10/11/2018	15:02:31	0.01
10/11/2018	15:03:31	0.01
10/11/2018	15:04:31	0.01
10/11/2018	15:05:31	0.008
10/11/2018	15:06:31	0.009
10/11/2018	15:07:31	0.009
10/11/2018	15:08:31	0.009
10/11/2018	15:09:31	0.008
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10/11/2018	15:15:31	0.008
10/11/2018	15:16:31	0.01
10/11/2018	15:17:31	0.009
10/11/2018	15:18:31	0.009
10/11/2018	15:19:31	0.009
10/11/2018	15:20:31	0.01
10/11/2018	15:21:31	0.012
10/11/2018	15:22:31	0.011
10/11/2018	15:23:31	0.012

10/11/2018	15:24:31	0.01
10/11/2018	15:25:31	0.011
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10/11/2018	15:28:31	0.01
10/11/2018	15:29:31	0.009
10/11/2018	15:30:31	0.009
10/11/2018	15:31:31	0.009
10/11/2018	15:32:31	0.01
10/11/2018	15:33:31	0.009
10/11/2018	15:34:31	0.01
10/11/2018	15:35:31	0.01
10/11/2018	15:36:31	0.009
10/11/2018	15:37:31	0.009
10/11/2018	15:38:31	0.01
10/11/2018	15:39:31	0.01
10/11/2018	15:40:31	0.01
10/11/2018	15:41:31	0.01
10/11/2018	15:42:31	0.011
10/11/2018	15:43:31	0.011
10/11/2018	15:44:31	0.01
10/11/2018	15:45:31	0.009
10/11/2018	15:46:31	0.01
10/11/2018	15:47:31	0.01
10/11/2018	15:48:31	0.009
10/11/2018	15:49:31	0.009
10/11/2018	15:50:31	0.009
10/11/2018	15:51:31	0.009
10/11/2018	15:52:31	0.01
10/11/2018	15:53:31	0.01
10/11/2018	15:54:31	0.009
10/11/2018	15:55:31	0.01
10/11/2018	15:56:31	0.01
10/11/2018	15:57:31	0.01
10/11/2018	15:58:31	0.01
10/11/2018	15:59:31	0.01
10/11/2018	16:00:31	0.01
10/11/2018	16:01:31	0.01
10/11/2018	16:02:31	0.01
10/11/2018	16:03:31	0.01
10/11/2018	16:04:31	0.011
10/11/2018	16:05:31	0.01
10/11/2018	16:06:31	0.009
10/11/2018	16:07:31	0.009
10/11/2018	16:08:31	0.01
10/11/2018	16:09:31	0.01
10/11/2018	16:10:31	0.01

10/11/2018	16:11:31	0.009
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10/11/2018	16:13:31	0.01
10/11/2018	16:14:31	0.009
10/11/2018	16:15:31	0.009
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10/11/2018	16:17:31	0.01
10/11/2018	16:18:31	0.01
10/11/2018	16:19:31	0.01
10/11/2018	16:20:31	0.01
10/11/2018	16:21:31	0.01
10/11/2018	16:22:31	0.01
10/11/2018	16:23:31	0.01
10/11/2018	16:24:31	0.01
10/11/2018	16:25:31	0.01
10/11/2018	16:26:31	0.01
10/11/2018	16:27:31	0.01
10/11/2018	16:28:31	0.01
10/11/2018	16:29:31	0.009
10/11/2018	16:30:31	0.009
10/11/2018	16:31:31	0.009
10/11/2018	16:32:31	0.009
10/11/2018	16:33:31	0.009
10/11/2018	16:34:31	0.009
10/11/2018	16:35:31	0.009
10/11/2018	16:36:31	0.008
10/11/2018	16:37:31	0.009
10/11/2018	16:38:31	0.009
10/11/2018	16:39:31	0.009

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530163515  
Test ID: 5  
Test Abbreviation: Upwind\_101218  
Start Date: 10/12/2018  
Start Time: 7:38:08  
Duration (dd:hh:mm:ss): 0:06:32:00  
Log Interval (mm:ss): 1:00  
Number of points: 392  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m^3  
Average: 0.005  
Minimum: 0.001  
Time of Minimum: 12:11:08  
Date of Minimum: 10/12/2018  
Maximum: 0.038  
Time of Maximum: 12:06:08  
Date of Maximum: 10/12/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m^3
10/12/2018	7:39:08	0.005
10/12/2018	7:40:08	0.005
10/12/2018	7:41:08	0.005
10/12/2018	7:42:08	0.004
10/12/2018	7:43:08	0.005
10/12/2018	7:44:08	0.005
10/12/2018	7:45:08	0.005
10/12/2018	7:46:08	0.005
10/12/2018	7:47:08	0.005
10/12/2018	7:48:08	0.005
10/12/2018	7:49:08	0.006
10/12/2018	7:50:08	0.006
10/12/2018	7:51:08	0.005
10/12/2018	7:52:08	0.005
10/12/2018	7:53:08	0.005
10/12/2018	7:54:08	0.005
10/12/2018	7:55:08	0.005
10/12/2018	7:56:08	0.005
10/12/2018	7:57:08	0.005
10/12/2018	7:58:08	0.005
10/12/2018	7:59:08	0.005

10/12/2018	8:00:08	0.006
10/12/2018	8:01:08	0.007
10/12/2018	8:02:08	0.005
10/12/2018	8:03:08	0.005
10/12/2018	8:04:08	0.007
10/12/2018	8:05:08	0.007
10/12/2018	8:06:08	0.008
10/12/2018	8:07:08	0.005
10/12/2018	8:08:08	0.005
10/12/2018	8:09:08	0.005
10/12/2018	8:10:08	0.005
10/12/2018	8:11:08	0.005
10/12/2018	8:12:08	0.004
10/12/2018	8:13:08	0.004
10/12/2018	8:14:08	0.005
10/12/2018	8:15:08	0.004
10/12/2018	8:16:08	0.005
10/12/2018	8:17:08	0.005
10/12/2018	8:18:08	0.005
10/12/2018	8:19:08	0.005
10/12/2018	8:20:08	0.005
10/12/2018	8:21:08	0.005
10/12/2018	8:22:08	0.004
10/12/2018	8:23:08	0.004
10/12/2018	8:24:08	0.004
10/12/2018	8:25:08	0.005
10/12/2018	8:26:08	0.005
10/12/2018	8:27:08	0.005
10/12/2018	8:28:08	0.005
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10/12/2018	8:30:08	0.005
10/12/2018	8:31:08	0.004
10/12/2018	8:32:08	0.004
10/12/2018	8:33:08	0.004
10/12/2018	8:34:08	0.004
10/12/2018	8:35:08	0.004
10/12/2018	8:36:08	0.004
10/12/2018	8:37:08	0.004
10/12/2018	8:38:08	0.004
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10/12/2018	8:41:08	0.003
10/12/2018	8:42:08	0.004
10/12/2018	8:43:08	0.008
10/12/2018	8:44:08	0.005
10/12/2018	8:45:08	0.004
10/12/2018	8:46:08	0.007

10/12/2018	8:47:08	0.005
10/12/2018	8:48:08	0.008
10/12/2018	8:49:08	0.004
10/12/2018	8:50:08	0.005
10/12/2018	8:51:08	0.008
10/12/2018	8:52:08	0.004
10/12/2018	8:53:08	0.004
10/12/2018	8:54:08	0.004
10/12/2018	8:55:08	0.006
10/12/2018	8:56:08	0.005
10/12/2018	8:57:08	0.004
10/12/2018	8:58:08	0.007
10/12/2018	8:59:08	0.006
10/12/2018	9:00:08	0.009
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10/12/2018	9:03:08	0.004
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10/12/2018	9:05:08	0.006
10/12/2018	9:06:08	0.003
10/12/2018	9:07:08	0.003
10/12/2018	9:08:08	0.005
10/12/2018	9:09:08	0.007
10/12/2018	9:10:08	0.004
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10/12/2018	9:12:08	0.007
10/12/2018	9:13:08	0.005
10/12/2018	9:14:08	0.006
10/12/2018	9:15:08	0.004
10/12/2018	9:16:08	0.005
10/12/2018	9:17:08	0.007
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10/12/2018	9:20:08	0.003
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10/12/2018	9:22:08	0.003
10/12/2018	9:23:08	0.004
10/12/2018	9:24:08	0.003
10/12/2018	9:25:08	0.003
10/12/2018	9:26:08	0.003
10/12/2018	9:27:08	0.003
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10/12/2018	9:33:08	0.002

10/12/2018	9:34:08	0.003
10/12/2018	9:35:08	0.003
10/12/2018	9:36:08	0.003
10/12/2018	9:37:08	0.003
10/12/2018	9:38:08	0.003
10/12/2018	9:39:08	0.003
10/12/2018	9:40:08	0.003
10/12/2018	9:41:08	0.003
10/12/2018	9:42:08	0.003
10/12/2018	9:43:08	0.004
10/12/2018	9:44:08	0.004
10/12/2018	9:45:08	0.003
10/12/2018	9:46:08	0.005
10/12/2018	9:47:08	0.003
10/12/2018	9:48:08	0.003
10/12/2018	9:49:08	0.003
10/12/2018	9:50:08	0.003
10/12/2018	9:51:08	0.003
10/12/2018	9:52:08	0.003
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10/12/2018	9:54:08	0.003
10/12/2018	9:55:08	0.003
10/12/2018	9:56:08	0.003
10/12/2018	9:57:08	0.003
10/12/2018	9:58:08	0.003
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10/12/2018	10:05:08	0.004
10/12/2018	10:06:08	0.003
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10/12/2018	10:12:08	0.007
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10/12/2018	10:16:08	0.006
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10/12/2018	10:26:08	0.009
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10/12/2018	10:29:08	0.005
10/12/2018	10:30:08	0.005
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10/12/2018	10:37:08	0.006
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10/12/2018	10:58:08	0.006
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10/12/2018	11:07:08	0.005

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10/12/2018	11:28:08	0.005
10/12/2018	11:29:08	0.003
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10/12/2018	11:33:08	0.004
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10/12/2018	11:35:08	0.003
10/12/2018	11:36:08	0.003
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10/12/2018	12:08:08	0.002
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10/12/2018	12:12:08	0.002
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10/12/2018	12:14:08	0.001
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10/12/2018	12:17:08	0.002
10/12/2018	12:18:08	0.002
10/12/2018	12:19:08	0.003
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10/12/2018	12:29:08	0.006
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10/12/2018	12:31:08	0.002
10/12/2018	12:32:08	0.002
10/12/2018	12:33:08	0.002
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10/12/2018	12:38:08	0.006
10/12/2018	12:39:08	0.004
10/12/2018	12:40:08	0.004
10/12/2018	12:41:08	0.004

10/12/2018	12:42:08	0.006
10/12/2018	12:43:08	0.003
10/12/2018	12:44:08	0.004
10/12/2018	12:45:08	0.003
10/12/2018	12:46:08	0.002
10/12/2018	12:47:08	0.004
10/12/2018	12:48:08	0.004
10/12/2018	12:49:08	0.002
10/12/2018	12:50:08	0.004
10/12/2018	12:51:08	0.002
10/12/2018	12:52:08	0.003
10/12/2018	12:53:08	0.002
10/12/2018	12:54:08	0.002
10/12/2018	12:55:08	0.002
10/12/2018	12:56:08	0.002
10/12/2018	12:57:08	0.003
10/12/2018	12:58:08	0.006
10/12/2018	12:59:08	0.006
10/12/2018	13:00:08	0.002
10/12/2018	13:01:08	0.002
10/12/2018	13:02:08	0.01
10/12/2018	13:03:08	0.011
10/12/2018	13:04:08	0.005
10/12/2018	13:05:08	0.012
10/12/2018	13:06:08	0.006
10/12/2018	13:07:08	0.003
10/12/2018	13:08:08	0.005
10/12/2018	13:09:08	0.002
10/12/2018	13:10:08	0.005
10/12/2018	13:11:08	0.004
10/12/2018	13:12:08	0.009
10/12/2018	13:13:08	0.006
10/12/2018	13:14:08	0.012
10/12/2018	13:15:08	0.007
10/12/2018	13:16:08	0.003
10/12/2018	13:17:08	0.002
10/12/2018	13:18:08	0.007
10/12/2018	13:19:08	0.005
10/12/2018	13:20:08	0.008
10/12/2018	13:21:08	0.006
10/12/2018	13:22:08	0.008
10/12/2018	13:23:08	0.007
10/12/2018	13:24:08	0.004
10/12/2018	13:25:08	0.004
10/12/2018	13:26:08	0.003
10/12/2018	13:27:08	0.003
10/12/2018	13:28:08	0.001

10/12/2018	13:29:08	0.002
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10/12/2018	13:31:08	0.003
10/12/2018	13:32:08	0.005
10/12/2018	13:33:08	0.005
10/12/2018	13:34:08	0.025
10/12/2018	13:35:08	0.005
10/12/2018	13:36:08	0.005
10/12/2018	13:37:08	0.003
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10/12/2018	13:39:08	0.006
10/12/2018	13:40:08	0.004
10/12/2018	13:41:08	0.003
10/12/2018	13:42:08	0.002
10/12/2018	13:43:08	0.007
10/12/2018	13:44:08	0.002
10/12/2018	13:45:08	0.002
10/12/2018	13:46:08	0.002
10/12/2018	13:47:08	0.002
10/12/2018	13:48:08	0.002
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10/12/2018	13:51:08	0.002
10/12/2018	13:52:08	0.002
10/12/2018	13:53:08	0.003
10/12/2018	13:54:08	0.003
10/12/2018	13:55:08	0.002
10/12/2018	13:56:08	0.003
10/12/2018	13:57:08	0.012
10/12/2018	13:58:08	0.001
10/12/2018	13:59:08	0.002
10/12/2018	14:00:08	0.002
10/12/2018	14:01:08	0.003
10/12/2018	14:02:08	0.001
10/12/2018	14:03:08	0.009
10/12/2018	14:04:08	0.004
10/12/2018	14:05:08	0.006
10/12/2018	14:06:08	0.004
10/12/2018	14:07:08	0.003
10/12/2018	14:08:08	0.01
10/12/2018	14:09:08	0.007
10/12/2018	14:10:08	0.002

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530163515  
 Test ID: 6  
 Test Abbreviation: Upwind\_101518  
 Start Date: 10/15/2018  
 Start Time: 7:48:17  
 Duration (dd:hh:mm:ss): 0:08:00:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 480  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.016  
 Minimum: 0.006  
 Time of Minimum: 13:28:17  
 Date of Minimum: 10/15/2018  
 Maximum: 0.056  
 Time of Maximum: 8:12:17  
 Date of Maximum: 10/15/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/15/2018	7:49:17	0.032
10/15/2018	7:50:17	0.033
10/15/2018	7:51:17	0.032
10/15/2018	7:52:17	0.033
10/15/2018	7:53:17	0.033
10/15/2018	7:54:17	0.033
10/15/2018	7:55:17	0.032
10/15/2018	7:56:17	0.032
10/15/2018	7:57:17	0.032
10/15/2018	7:58:17	0.033
10/15/2018	7:59:17	0.035
10/15/2018	8:00:17	0.035
10/15/2018	8:01:17	0.034
10/15/2018	8:02:17	0.037
10/15/2018	8:03:17	0.036
10/15/2018	8:04:17	0.035
10/15/2018	8:05:17	0.035
10/15/2018	8:06:17	0.035
10/15/2018	8:07:17	0.035
10/15/2018	8:08:17	0.036
10/15/2018	8:09:17	0.036

10/15/2018	8:10:17	0.036
10/15/2018	8:11:17	0.04
10/15/2018	8:12:17	0.056
10/15/2018	8:13:17	0.042
10/15/2018	8:14:17	0.039
10/15/2018	8:15:17	0.038
10/15/2018	8:16:17	0.038
10/15/2018	8:17:17	0.038
10/15/2018	8:18:17	0.038
10/15/2018	8:19:17	0.038
10/15/2018	8:20:17	0.038
10/15/2018	8:21:17	0.038
10/15/2018	8:22:17	0.037
10/15/2018	8:23:17	0.037
10/15/2018	8:24:17	0.037
10/15/2018	8:25:17	0.037
10/15/2018	8:26:17	0.036
10/15/2018	8:27:17	0.036
10/15/2018	8:28:17	0.035
10/15/2018	8:29:17	0.035
10/15/2018	8:30:17	0.034
10/15/2018	8:31:17	0.033
10/15/2018	8:32:17	0.034
10/15/2018	8:33:17	0.032
10/15/2018	8:34:17	0.032
10/15/2018	8:35:17	0.033
10/15/2018	8:36:17	0.033
10/15/2018	8:37:17	0.032
10/15/2018	8:38:17	0.032
10/15/2018	8:39:17	0.031
10/15/2018	8:40:17	0.032
10/15/2018	8:41:17	0.031
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10/15/2018	8:43:17	0.03
10/15/2018	8:44:17	0.03
10/15/2018	8:45:17	0.03
10/15/2018	8:46:17	0.031
10/15/2018	8:47:17	0.032
10/15/2018	8:48:17	0.03
10/15/2018	8:49:17	0.029
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10/15/2018	8:51:17	0.029
10/15/2018	8:52:17	0.029
10/15/2018	8:53:17	0.028
10/15/2018	8:54:17	0.028
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10/15/2018	8:56:17	0.027

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10/15/2018	8:58:17	0.026
10/15/2018	8:59:17	0.026
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10/15/2018	9:01:17	0.026
10/15/2018	9:02:17	0.026
10/15/2018	9:03:17	0.026
10/15/2018	9:04:17	0.027
10/15/2018	9:05:17	0.026
10/15/2018	9:06:17	0.026
10/15/2018	9:07:17	0.026
10/15/2018	9:08:17	0.026
10/15/2018	9:09:17	0.025
10/15/2018	9:10:17	0.026
10/15/2018	9:11:17	0.027
10/15/2018	9:12:17	0.026
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10/15/2018	9:16:17	0.025
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10/15/2018	9:32:17	0.023
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10/15/2018	9:37:17	0.024
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10/15/2018	9:43:17	0.022



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10/15/2018	9:52:17	0.02
10/15/2018	9:53:17	0.02
10/15/2018	9:54:17	0.021
10/15/2018	9:55:17	0.02
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10/15/2018	9:57:17	0.022
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10/15/2018	10:02:17	0.019
10/15/2018	10:03:17	0.019
10/15/2018	10:04:17	0.019
10/15/2018	10:05:17	0.018
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10/15/2018	10:07:17	0.019
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10/15/2018	13:00:17	0.007
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10/15/2018	13:35:17	0.006
10/15/2018	13:36:17	0.007
10/15/2018	13:37:17	0.007
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10/15/2018	13:52:17	0.006
10/15/2018	13:53:17	0.006
10/15/2018	13:54:17	0.006
10/15/2018	13:55:17	0.006
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10/15/2018	13:57:17	0.006
10/15/2018	13:58:17	0.006
10/15/2018	13:59:17	0.006
10/15/2018	14:00:17	0.006
10/15/2018	14:01:17	0.006
10/15/2018	14:02:17	0.006
10/15/2018	14:03:17	0.006
10/15/2018	14:04:17	0.007
10/15/2018	14:05:17	0.007
10/15/2018	14:06:17	0.007
10/15/2018	14:07:17	0.007
10/15/2018	14:08:17	0.009
10/15/2018	14:09:17	0.008
10/15/2018	14:10:17	0.007
10/15/2018	14:11:17	0.007
10/15/2018	14:12:17	0.007
10/15/2018	14:13:17	0.007
10/15/2018	14:14:17	0.008
10/15/2018	14:15:17	0.007
10/15/2018	14:16:17	0.01
10/15/2018	14:17:17	0.008
10/15/2018	14:18:17	0.007
10/15/2018	14:19:17	0.007
10/15/2018	14:20:17	0.008
10/15/2018	14:21:17	0.008
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10/15/2018	14:23:17	0.009
10/15/2018	14:24:17	0.008
10/15/2018	14:25:17	0.008

10/15/2018	14:26:17	0.009
10/15/2018	14:27:17	0.011
10/15/2018	14:28:17	0.008
10/15/2018	14:29:17	0.009
10/15/2018	14:30:17	0.01
10/15/2018	14:31:17	0.008
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10/15/2018	14:33:17	0.009
10/15/2018	14:34:17	0.009
10/15/2018	14:35:17	0.009
10/15/2018	14:36:17	0.009
10/15/2018	14:37:17	0.009
10/15/2018	14:38:17	0.011
10/15/2018	14:39:17	0.01
10/15/2018	14:40:17	0.011
10/15/2018	14:41:17	0.011
10/15/2018	14:42:17	0.011
10/15/2018	14:43:17	0.011
10/15/2018	14:44:17	0.017
10/15/2018	14:45:17	0.015
10/15/2018	14:46:17	0.011
10/15/2018	14:47:17	0.011
10/15/2018	14:48:17	0.011
10/15/2018	14:49:17	0.011
10/15/2018	14:50:17	0.012
10/15/2018	14:51:17	0.012
10/15/2018	14:52:17	0.014
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10/15/2018	14:55:17	0.012
10/15/2018	14:56:17	0.012
10/15/2018	14:57:17	0.014
10/15/2018	14:58:17	0.012
10/15/2018	14:59:17	0.013
10/15/2018	15:00:17	0.013
10/15/2018	15:01:17	0.013
10/15/2018	15:02:17	0.013
10/15/2018	15:03:17	0.013
10/15/2018	15:04:17	0.013
10/15/2018	15:05:17	0.013
10/15/2018	15:06:17	0.013
10/15/2018	15:07:17	0.014
10/15/2018	15:08:17	0.014
10/15/2018	15:09:17	0.014
10/15/2018	15:10:17	0.015
10/15/2018	15:11:17	0.014
10/15/2018	15:12:17	0.016

10/15/2018	15:13:17	0.016
10/15/2018	15:14:17	0.015
10/15/2018	15:15:17	0.016
10/15/2018	15:16:17	0.015
10/15/2018	15:17:17	0.016
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10/15/2018	15:20:17	0.016
10/15/2018	15:21:17	0.016
10/15/2018	15:22:17	0.016
10/15/2018	15:23:17	0.016
10/15/2018	15:24:17	0.017
10/15/2018	15:25:17	0.018
10/15/2018	15:26:17	0.016
10/15/2018	15:27:17	0.016
10/15/2018	15:28:17	0.016
10/15/2018	15:29:17	0.018
10/15/2018	15:30:17	0.017
10/15/2018	15:31:17	0.017
10/15/2018	15:32:17	0.016
10/15/2018	15:33:17	0.016
10/15/2018	15:34:17	0.017
10/15/2018	15:35:17	0.018
10/15/2018	15:36:17	0.018
10/15/2018	15:37:17	0.018
10/15/2018	15:38:17	0.018
10/15/2018	15:39:17	0.018
10/15/2018	15:40:17	0.018
10/15/2018	15:41:17	0.017
10/15/2018	15:42:17	0.02
10/15/2018	15:43:17	0.017
10/15/2018	15:44:17	0.017
10/15/2018	15:45:17	0.017
10/15/2018	15:46:17	0.017
10/15/2018	15:47:17	0.019
10/15/2018	15:48:17	0.02



TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
Model Number: 8530  
Serial Number: 8530163515  
Test ID: 7  
Test Abbreviation: Upwind\_101618  
Start Date: 10/16/2018  
Start Time: 8:14:00  
Duration (dd:hh:mm:ss): 0:06:52:00  
Log Interval (mm:ss): 1:00  
Number of points: 412  
Notes:

Statistics Channel: AEROSOL  
Units: mg/m<sup>3</sup>  
Average: 0.007  
Minimum: 0.002  
Time of Minimum: 10:34:00  
Date of Minimum: 10/16/2018  
Maximum: 0.044  
Time of Maximum: 8:56:00  
Date of Maximum: 10/16/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
10/16/2018	8:15:00	0.023
10/16/2018	8:16:00	0.015
10/16/2018	8:17:00	0.015
10/16/2018	8:18:00	0.016
10/16/2018	8:19:00	0.018
10/16/2018	8:20:00	0.018
10/16/2018	8:21:00	0.022
10/16/2018	8:22:00	0.02
10/16/2018	8:23:00	0.022
10/16/2018	8:24:00	0.023
10/16/2018	8:25:00	0.021
10/16/2018	8:26:00	0.024
10/16/2018	8:27:00	0.024
10/16/2018	8:28:00	0.023
10/16/2018	8:29:00	0.019
10/16/2018	8:30:00	0.017
10/16/2018	8:31:00	0.02
10/16/2018	8:32:00	0.018
10/16/2018	8:33:00	0.023
10/16/2018	8:34:00	0.014
10/16/2018	8:35:00	0.017

10/16/2018	8:36:00	0.018
10/16/2018	8:37:00	0.019
10/16/2018	8:38:00	0.012
10/16/2018	8:39:00	0.013
10/16/2018	8:40:00	0.015
10/16/2018	8:41:00	0.023
10/16/2018	8:42:00	0.012
10/16/2018	8:43:00	0.013
10/16/2018	8:44:00	0.013
10/16/2018	8:45:00	0.039
10/16/2018	8:46:00	0.009
10/16/2018	8:47:00	0.006
10/16/2018	8:48:00	0.009
10/16/2018	8:49:00	0.01
10/16/2018	8:50:00	0.005
10/16/2018	8:51:00	0.006
10/16/2018	8:52:00	0.006
10/16/2018	8:53:00	0.007
10/16/2018	8:54:00	0.014
10/16/2018	8:55:00	0.014
10/16/2018	8:56:00	0.044
10/16/2018	8:57:00	0.026
10/16/2018	8:58:00	0.01
10/16/2018	8:59:00	0.007
10/16/2018	9:00:00	0.01
10/16/2018	9:01:00	0.005
10/16/2018	9:02:00	0.005
10/16/2018	9:03:00	0.004
10/16/2018	9:04:00	0.005
10/16/2018	9:05:00	0.009
10/16/2018	9:06:00	0.015
10/16/2018	9:07:00	0.006
10/16/2018	9:08:00	0.014
10/16/2018	9:09:00	0.005
10/16/2018	9:10:00	0.006
10/16/2018	9:11:00	0.007
10/16/2018	9:12:00	0.007
10/16/2018	9:13:00	0.008
10/16/2018	9:14:00	0.006
10/16/2018	9:15:00	0.006
10/16/2018	9:16:00	0.004
10/16/2018	9:17:00	0.004
10/16/2018	9:18:00	0.004
10/16/2018	9:19:00	0.005
10/16/2018	9:20:00	0.004
10/16/2018	9:21:00	0.006
10/16/2018	9:22:00	0.006

10/16/2018	9:23:00	0.007
10/16/2018	9:24:00	0.005
10/16/2018	9:25:00	0.005
10/16/2018	9:26:00	0.004
10/16/2018	9:27:00	0.006
10/16/2018	9:28:00	0.004
10/16/2018	9:29:00	0.004
10/16/2018	9:30:00	0.005
10/16/2018	9:31:00	0.008
10/16/2018	9:32:00	0.01
10/16/2018	9:33:00	0.008
10/16/2018	9:34:00	0.006
10/16/2018	9:35:00	0.004
10/16/2018	9:36:00	0.004
10/16/2018	9:37:00	0.003
10/16/2018	9:38:00	0.004
10/16/2018	9:39:00	0.007
10/16/2018	9:40:00	0.004
10/16/2018	9:41:00	0.009
10/16/2018	9:42:00	0.015
10/16/2018	9:43:00	0.005
10/16/2018	9:44:00	0.007
10/16/2018	9:45:00	0.006
10/16/2018	9:46:00	0.005
10/16/2018	9:47:00	0.004
10/16/2018	9:48:00	0.004
10/16/2018	9:49:00	0.004
10/16/2018	9:50:00	0.004
10/16/2018	9:51:00	0.004
10/16/2018	9:52:00	0.004
10/16/2018	9:53:00	0.008
10/16/2018	9:54:00	0.004
10/16/2018	9:55:00	0.007
10/16/2018	9:56:00	0.008
10/16/2018	9:57:00	0.008
10/16/2018	9:58:00	0.005
10/16/2018	9:59:00	0.006
10/16/2018	10:00:00	0.007
10/16/2018	10:01:00	0.004
10/16/2018	10:02:00	0.005
10/16/2018	10:03:00	0.013
10/16/2018	10:04:00	0.009
10/16/2018	10:05:00	0.017
10/16/2018	10:06:00	0.009
10/16/2018	10:07:00	0.006
10/16/2018	10:08:00	0.006
10/16/2018	10:09:00	0.005

10/16/2018	10:10:00	0.003
10/16/2018	10:11:00	0.015
10/16/2018	10:12:00	0.004
10/16/2018	10:13:00	0.003
10/16/2018	10:14:00	0.003
10/16/2018	10:15:00	0.004
10/16/2018	10:16:00	0.005
10/16/2018	10:17:00	0.004
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10/16/2018	10:19:00	0.004
10/16/2018	10:20:00	0.003
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10/16/2018	10:23:00	0.003
10/16/2018	10:24:00	0.004
10/16/2018	10:25:00	0.006
10/16/2018	10:26:00	0.004
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10/16/2018	10:28:00	0.004
10/16/2018	10:29:00	0.004
10/16/2018	10:30:00	0.004
10/16/2018	10:31:00	0.004
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10/16/2018	10:35:00	0.003
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10/16/2018	10:41:00	0.004
10/16/2018	10:42:00	0.003
10/16/2018	10:43:00	0.004
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10/16/2018	10:46:00	0.003
10/16/2018	10:47:00	0.003
10/16/2018	10:48:00	0.016
10/16/2018	10:49:00	0.007
10/16/2018	10:50:00	0.003
10/16/2018	10:51:00	0.004
10/16/2018	10:52:00	0.008
10/16/2018	10:53:00	0.005
10/16/2018	10:54:00	0.003
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10/16/2018	10:56:00	0.003

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10/16/2018	10:58:00	0.003
10/16/2018	10:59:00	0.003
10/16/2018	11:00:00	0.015
10/16/2018	11:01:00	0.005
10/16/2018	11:02:00	0.009
10/16/2018	11:03:00	0.007
10/16/2018	11:04:00	0.004
10/16/2018	11:05:00	0.007
10/16/2018	11:06:00	0.007
10/16/2018	11:07:00	0.008
10/16/2018	11:08:00	0.005
10/16/2018	11:09:00	0.005
10/16/2018	11:10:00	0.007
10/16/2018	11:11:00	0.009
10/16/2018	11:12:00	0.007
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10/16/2018	11:14:00	0.006
10/16/2018	11:15:00	0.006
10/16/2018	11:16:00	0.007
10/16/2018	11:17:00	0.004
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10/16/2018	11:31:00	0.005
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10/16/2018	11:34:00	0.005
10/16/2018	11:35:00	0.006
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10/16/2018	11:38:00	0.005
10/16/2018	11:39:00	0.006
10/16/2018	11:40:00	0.012
10/16/2018	11:41:00	0.006
10/16/2018	11:42:00	0.005
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10/16/2018	11:47:00	0.005
10/16/2018	11:48:00	0.006
10/16/2018	11:49:00	0.006
10/16/2018	11:50:00	0.005
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10/16/2018	12:00:00	0.006
10/16/2018	12:01:00	0.006
10/16/2018	12:02:00	0.007
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10/16/2018	12:06:00	0.009
10/16/2018	12:07:00	0.01
10/16/2018	12:08:00	0.009
10/16/2018	12:09:00	0.008
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10/16/2018	12:11:00	0.005
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10/16/2018	12:17:00	0.005
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10/16/2018	12:19:00	0.004
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10/16/2018	12:22:00	0.003
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10/16/2018	12:25:00	0.005
10/16/2018	12:26:00	0.005
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10/16/2018	12:32:00	0.005
10/16/2018	12:33:00	0.006
10/16/2018	12:34:00	0.006
10/16/2018	12:35:00	0.006
10/16/2018	12:36:00	0.008
10/16/2018	12:37:00	0.004
10/16/2018	12:38:00	0.005
10/16/2018	12:39:00	0.004
10/16/2018	12:40:00	0.003
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10/16/2018	12:51:00	0.004
10/16/2018	12:52:00	0.004
10/16/2018	12:53:00	0.004
10/16/2018	12:54:00	0.007
10/16/2018	12:55:00	0.005
10/16/2018	12:56:00	0.009
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10/16/2018	12:58:00	0.004
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10/16/2018	13:03:00	0.006
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10/16/2018	13:08:00	0.005
10/16/2018	13:09:00	0.005
10/16/2018	13:10:00	0.006
10/16/2018	13:11:00	0.006
10/16/2018	13:12:00	0.009
10/16/2018	13:13:00	0.007
10/16/2018	13:14:00	0.004
10/16/2018	13:15:00	0.005
10/16/2018	13:16:00	0.007
10/16/2018	13:17:00	0.005

10/16/2018	13:18:00	0.005
10/16/2018	13:19:00	0.004
10/16/2018	13:20:00	0.005
10/16/2018	13:21:00	0.005
10/16/2018	13:22:00	0.006
10/16/2018	13:23:00	0.006
10/16/2018	13:24:00	0.007
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10/16/2018	13:28:00	0.007
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10/16/2018	13:33:00	0.008
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10/16/2018	13:35:00	0.006
10/16/2018	13:36:00	0.005
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10/16/2018	13:40:00	0.006
10/16/2018	13:41:00	0.006
10/16/2018	13:42:00	0.006
10/16/2018	13:43:00	0.004
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10/16/2018	13:47:00	0.006
10/16/2018	13:48:00	0.005
10/16/2018	13:49:00	0.005
10/16/2018	13:50:00	0.008
10/16/2018	13:51:00	0.008
10/16/2018	13:52:00	0.006
10/16/2018	13:53:00	0.005
10/16/2018	13:54:00	0.005
10/16/2018	13:55:00	0.009
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10/16/2018	13:58:00	0.006
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10/16/2018	14:01:00	0.005
10/16/2018	14:02:00	0.005
10/16/2018	14:03:00	0.005
10/16/2018	14:04:00	0.007



10/16/2018	14:05:00	0.007
10/16/2018	14:06:00	0.007
10/16/2018	14:07:00	0.007
10/16/2018	14:08:00	0.006
10/16/2018	14:09:00	0.008
10/16/2018	14:10:00	0.008
10/16/2018	14:11:00	0.007
10/16/2018	14:12:00	0.007
10/16/2018	14:13:00	0.008
10/16/2018	14:14:00	0.008
10/16/2018	14:15:00	0.011
10/16/2018	14:16:00	0.013
10/16/2018	14:17:00	0.009
10/16/2018	14:18:00	0.006
10/16/2018	14:19:00	0.007
10/16/2018	14:20:00	0.01
10/16/2018	14:21:00	0.01
10/16/2018	14:22:00	0.01
10/16/2018	14:23:00	0.009
10/16/2018	14:24:00	0.006
10/16/2018	14:25:00	0.005
10/16/2018	14:26:00	0.008
10/16/2018	14:27:00	0.01
10/16/2018	14:28:00	0.007
10/16/2018	14:29:00	0.007
10/16/2018	14:30:00	0.007
10/16/2018	14:31:00	0.007
10/16/2018	14:32:00	0.007
10/16/2018	14:33:00	0.006
10/16/2018	14:34:00	0.007
10/16/2018	14:35:00	0.01
10/16/2018	14:36:00	0.007
10/16/2018	14:37:00	0.005
10/16/2018	14:38:00	0.006
10/16/2018	14:39:00	0.014
10/16/2018	14:40:00	0.007
10/16/2018	14:41:00	0.007
10/16/2018	14:42:00	0.007
10/16/2018	14:43:00	0.008
10/16/2018	14:44:00	0.006
10/16/2018	14:45:00	0.006
10/16/2018	14:46:00	0.009
10/16/2018	14:47:00	0.005
10/16/2018	14:48:00	0.008
10/16/2018	14:49:00	0.006
10/16/2018	14:50:00	0.009
10/16/2018	14:51:00	0.01

10/16/2018	14:52:00	0.007
10/16/2018	14:53:00	0.006
10/16/2018	14:54:00	0.006
10/16/2018	14:55:00	0.004
10/16/2018	14:56:00	0.007
10/16/2018	14:57:00	0.007
10/16/2018	14:58:00	0.006
10/16/2018	14:59:00	0.008
10/16/2018	15:00:00	0.01
10/16/2018	15:01:00	0.008
10/16/2018	15:02:00	0.006
10/16/2018	15:03:00	0.008
10/16/2018	15:04:00	0.006
10/16/2018	15:05:00	0.007
10/16/2018	15:06:00	0.005

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530162808  
 Test ID: 1  
 Test Abbreviation: Upwind\_121018  
 Start Date: 12/10/2018  
 Start Time: 8:59:51  
 Duration (dd:hh:mm:ss): 0:05:55:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 355  
 Notes:

Statistics Channel: AEROSOL  
 Units: mg/m<sup>3</sup>  
 Average: 0.017  
 Minimum: 0.000  
 Time of Minimum: 14:55:33  
 Date of Minimum: 12/10/2018  
 Maximum: 0.039  
 Time of Maximum: 9:08:51  
 Date of Maximum: 12/10/2018

Date mm/dd/yyyy	Time hh:mm:ss	AEROSOL mg/m <sup>3</sup>
12/10/2018	9:00:51	0.034
12/10/2018	9:01:51	0.034
12/10/2018	9:02:51	0.033
12/10/2018	9:03:51	0.037
12/10/2018	9:04:51	0.037
12/10/2018	9:05:51	0.033
12/10/2018	9:06:51	0.035
12/10/2018	9:07:51	0.032
12/10/2018	9:08:51	0.039
12/10/2018	9:09:51	0.031
12/10/2018	9:10:51	0.033
12/10/2018	9:11:51	0.032
12/10/2018	9:12:51	0.03
12/10/2018	9:13:51	0.027
12/10/2018	9:14:51	0.027
12/10/2018	9:15:51	0.027
12/10/2018	9:16:51	0.027
12/10/2018	9:17:51	0.026
12/10/2018	9:18:51	0.026
12/10/2018	9:19:51	0.025
12/10/2018	9:20:51	0.026

12/10/2018	9:21:51	0.027
12/10/2018	9:22:51	0.023
12/10/2018	9:23:51	0.023
12/10/2018	9:24:51	0.022
12/10/2018	9:25:51	0.021
12/10/2018	9:26:51	0.024
12/10/2018	9:27:51	0.023
12/10/2018	9:28:51	0.022
12/10/2018	9:29:51	0.02
12/10/2018	9:30:51	0.021
12/10/2018	9:31:51	0.025
12/10/2018	9:32:51	0.025
12/10/2018	9:33:51	0.033
12/10/2018	9:34:51	0.028
12/10/2018	9:35:51	0.033
12/10/2018	9:36:51	0.032
12/10/2018	9:37:51	0.035
12/10/2018	9:38:51	0.037
12/10/2018	9:39:51	0.026
12/10/2018	9:40:51	0.025
12/10/2018	9:41:51	0.023
12/10/2018	9:42:51	0.026
12/10/2018	9:43:51	0.026
12/10/2018	9:44:51	0.023
12/10/2018	9:45:51	0.02
12/10/2018	9:46:51	0.02
12/10/2018	9:47:51	0.021
12/10/2018	9:48:51	0.02
12/10/2018	9:49:51	0.019
12/10/2018	9:50:51	0.021
12/10/2018	9:51:51	0.022
12/10/2018	9:52:51	0.019
12/10/2018	9:53:51	0.018
12/10/2018	9:54:51	0.017
12/10/2018	9:55:51	0.02
12/10/2018	9:56:51	0.019
12/10/2018	9:57:51	0.019
12/10/2018	9:58:51	0.021
12/10/2018	9:59:51	0.021
12/10/2018	10:00:51	0.018
12/10/2018	10:01:51	0.021
12/10/2018	10:02:51	0.025
12/10/2018	10:03:51	0.028
12/10/2018	10:04:51	0.02
12/10/2018	10:05:51	0.018
12/10/2018	10:06:51	0.016
12/10/2018	10:07:51	0.017

12/10/2018	10:08:51	0.017
12/10/2018	10:09:51	0.018
12/10/2018	10:10:51	0.027
12/10/2018	10:11:51	0.015
12/10/2018	10:12:51	0.017
12/10/2018	10:13:51	0.018
12/10/2018	10:14:51	0.022
12/10/2018	10:15:51	0.03
12/10/2018	10:16:51	0.018
12/10/2018	10:17:51	0.016
12/10/2018	10:18:51	0.016
12/10/2018	10:19:51	0.018
12/10/2018	10:20:51	0.02
12/10/2018	10:21:51	0.018
12/10/2018	10:22:51	0.017
12/10/2018	10:23:51	0.017
12/10/2018	10:24:51	0.017
12/10/2018	10:25:51	0.016
12/10/2018	10:26:51	0.015
12/10/2018	10:27:51	0.013
12/10/2018	10:28:51	0.014
12/10/2018	10:29:51	0.015
12/10/2018	10:30:51	0.015
12/10/2018	10:31:51	0.015
12/10/2018	10:32:51	0.015
12/10/2018	10:33:51	0.015
12/10/2018	10:34:51	0.015
12/10/2018	10:35:51	0.015
12/10/2018	10:36:51	0.014
12/10/2018	10:37:51	0.016
12/10/2018	10:38:51	0.015
12/10/2018	10:39:51	0.013
12/10/2018	10:40:51	0.013
12/10/2018	10:41:51	0.014
12/10/2018	10:42:51	0.014
12/10/2018	10:43:51	0.012
12/10/2018	10:44:51	0.012
12/10/2018	10:45:51	0.012
12/10/2018	10:46:51	0.013
12/10/2018	10:47:51	0.013
12/10/2018	10:48:51	0.015
12/10/2018	10:49:51	0.013
12/10/2018	10:50:51	0.014
12/10/2018	10:51:51	0.013
12/10/2018	10:52:51	0.014
12/10/2018	10:53:51	0.012
12/10/2018	10:54:51	0.013

12/10/2018	10:55:51	0.02
12/10/2018	10:56:51	0.013
12/10/2018	10:57:51	0.013
12/10/2018	10:58:51	0.018
12/10/2018	10:59:51	0.02
12/10/2018	11:00:51	0.018
12/10/2018	11:01:51	0.016
12/10/2018	11:02:51	0.014
12/10/2018	11:03:51	0.013
12/10/2018	11:04:51	0.013
12/10/2018	11:05:51	0.012
12/10/2018	11:06:51	0.012
12/10/2018	11:07:51	0.012
12/10/2018	11:08:51	0.015
12/10/2018	11:09:51	0.013
12/10/2018	11:10:51	0.014
12/10/2018	11:11:51	0.013
12/10/2018	11:12:51	0.013
12/10/2018	11:13:51	0.013
12/10/2018	11:14:51	0.014
12/10/2018	11:15:51	0.03
12/10/2018	11:16:51	0.02
12/10/2018	11:17:51	0.015
12/10/2018	11:18:51	0.018
12/10/2018	11:19:51	0.017
12/10/2018	11:20:51	0.019
12/10/2018	11:21:51	0.017
12/10/2018	11:22:51	0.018
12/10/2018	11:23:51	0.015
12/10/2018	11:24:51	0.015
12/10/2018	11:25:51	0.014
12/10/2018	11:26:51	0.013
12/10/2018	11:27:51	0.014
12/10/2018	11:28:51	0.016
12/10/2018	11:29:51	0.015
12/10/2018	11:30:51	0.016
12/10/2018	11:31:51	0.014
12/10/2018	11:32:51	0.014
12/10/2018	11:33:51	0.014
12/10/2018	11:34:51	0.014
12/10/2018	11:35:51	0.014
12/10/2018	11:36:51	0.015
12/10/2018	11:37:51	0.017
12/10/2018	11:38:51	0.015
12/10/2018	11:39:51	0.015
12/10/2018	11:40:51	0.014
12/10/2018	11:41:51	0.014

12/10/2018	11:42:51	0.015
12/10/2018	11:43:51	0.016
12/10/2018	11:44:51	0.015
12/10/2018	11:45:51	0.015
12/10/2018	11:46:51	0.015
12/10/2018	11:47:51	0.016
12/10/2018	11:48:51	0.014
12/10/2018	11:49:51	0.017
12/10/2018	11:50:51	0.017
12/10/2018	11:51:51	0.014
12/10/2018	11:52:51	0.015
12/10/2018	11:53:51	0.021
12/10/2018	11:54:51	0.016
12/10/2018	11:55:51	0.014
12/10/2018	11:56:51	0.018
12/10/2018	11:57:51	0.015
12/10/2018	11:58:51	0.015
12/10/2018	11:59:51	0.018
12/10/2018	12:00:51	0.014
12/10/2018	12:01:51	0.015
12/10/2018	12:02:51	0.017
12/10/2018	12:03:51	0.021
12/10/2018	12:04:51	0.016
12/10/2018	12:05:51	0.014
12/10/2018	12:06:51	0.015
12/10/2018	12:07:51	0.015
12/10/2018	12:08:51	0.014
12/10/2018	12:09:51	0.014
12/10/2018	12:10:51	0.013
12/10/2018	12:11:51	0.013
12/10/2018	12:12:51	0.014
12/10/2018	12:13:51	0.013
12/10/2018	12:14:51	0.014
12/10/2018	12:15:51	0.016
12/10/2018	12:16:51	0.014
12/10/2018	12:17:51	0.017
12/10/2018	12:18:51	0.018
12/10/2018	12:19:51	0.015
12/10/2018	12:20:51	0.014
12/10/2018	12:21:51	0.013
12/10/2018	12:22:51	0.016
12/10/2018	12:23:51	0.017
12/10/2018	12:24:51	0.017
12/10/2018	12:25:51	0.021
12/10/2018	12:26:51	0.016
12/10/2018	12:27:51	0.015
12/10/2018	12:28:51	0.014

12/10/2018	12:29:51	0.014
12/10/2018	12:30:51	0.015
12/10/2018	12:31:51	0.014
12/10/2018	12:32:51	0.015
12/10/2018	12:33:51	0.015
12/10/2018	12:34:51	0.015
12/10/2018	12:35:51	0.015
12/10/2018	12:36:51	0.014
12/10/2018	12:37:51	0.014
12/10/2018	12:38:51	0.014
12/10/2018	12:39:51	0.015
12/10/2018	12:40:51	0.014
12/10/2018	12:41:51	0.014
12/10/2018	12:42:51	0.014
12/10/2018	12:43:51	0.014
12/10/2018	12:44:51	0.016
12/10/2018	12:45:51	0.016
12/10/2018	12:46:51	0.015
12/10/2018	12:47:51	0.015
12/10/2018	12:48:51	0.015
12/10/2018	12:49:51	0.016
12/10/2018	12:50:51	0.015
12/10/2018	12:51:51	0.015
12/10/2018	12:52:51	0.015
12/10/2018	12:53:51	0.014
12/10/2018	12:54:51	0.013
12/10/2018	12:55:51	0.013
12/10/2018	12:56:51	0.013
12/10/2018	12:57:51	0.014
12/10/2018	12:58:51	0.013
12/10/2018	12:59:51	0.013
12/10/2018	13:00:51	0.013
12/10/2018	13:01:51	0.012
12/10/2018	13:02:51	0.012
12/10/2018	13:03:51	0.012
12/10/2018	13:04:51	0.012
12/10/2018	13:05:51	0.012
12/10/2018	13:06:51	0.012
12/10/2018	13:07:51	0.013
12/10/2018	13:08:51	0.012
12/10/2018	13:09:51	0.012
12/10/2018	13:10:51	0.012
12/10/2018	13:11:51	0.013
12/10/2018	13:12:51	0.014
12/10/2018	13:13:51	0.014
12/10/2018	13:14:51	0.013
12/10/2018	13:15:51	0.012



12/10/2018	13:16:51	0.015
12/10/2018	13:17:51	0.017
12/10/2018	13:18:51	0.014
12/10/2018	13:19:51	0.014
12/10/2018	13:20:51	0.015
12/10/2018	13:21:51	0.012
12/10/2018	13:22:51	0.013
12/10/2018	13:23:51	0.012
12/10/2018	13:24:51	0.013
12/10/2018	13:25:51	0.012
12/10/2018	13:26:51	0.013
12/10/2018	13:27:51	0.012
12/10/2018	13:28:51	0.013
12/10/2018	13:29:51	0.013
12/10/2018	13:30:51	0.012
12/10/2018	13:31:51	0.013
12/10/2018	13:32:51	0.013
12/10/2018	13:33:51	0.013
12/10/2018	13:34:51	0.015
12/10/2018	13:35:51	0.013
12/10/2018	13:36:51	0.013
12/10/2018	13:37:51	0.013
12/10/2018	13:38:51	0.012
12/10/2018	13:39:51	0.016
12/10/2018	13:40:51	0.011
12/10/2018	13:41:51	0.013
12/10/2018	13:42:51	0.021
12/10/2018	13:43:51	0.02
12/10/2018	13:44:51	0.017
12/10/2018	13:45:51	0.015
12/10/2018	13:46:51	0.017
12/10/2018	13:47:51	0.017
12/10/2018	13:48:51	0.016
12/10/2018	13:49:51	0.016
12/10/2018	13:50:51	0.018
12/10/2018	13:51:51	0.019
12/10/2018	13:52:51	0.017
12/10/2018	13:53:51	0.016
12/10/2018	13:54:51	0.015
12/10/2018	13:55:51	0.016
12/10/2018	13:56:51	0.016
12/10/2018	13:57:51	0.015
12/10/2018	13:58:51	0.015
12/10/2018	13:59:51	0.015
12/10/2018	14:00:51	0.017
12/10/2018	14:01:51	0.02
12/10/2018	14:02:51	0.026

12/10/2018	14:03:51	0.028
12/10/2018	14:04:51	0.023
12/10/2018	14:05:51	0.037
12/10/2018	14:06:51	0.028
12/10/2018	14:07:51	0.016
12/10/2018	14:08:51	0.016
12/10/2018	14:09:51	0.015
12/10/2018	14:10:51	0.017
12/10/2018	14:11:51	0.017
12/10/2018	14:12:51	0.018
12/10/2018	14:13:51	0.016
12/10/2018	14:14:51	0.016
12/10/2018	14:15:51	0.017
12/10/2018	14:16:51	0.019
12/10/2018	14:17:51	0.017
12/10/2018	14:18:51	0.016
12/10/2018	14:19:51	0.015
12/10/2018	14:20:51	0.015
12/10/2018	14:21:51	0.014
12/10/2018	14:22:51	0.015
12/10/2018	14:23:51	0.014
12/10/2018	14:24:51	0.014
12/10/2018	14:25:51	0.016
12/10/2018	14:26:51	0.016
12/10/2018	14:27:51	0.017
12/10/2018	14:28:51	0.02
12/10/2018	14:29:51	0.021
12/10/2018	14:30:51	0.015
12/10/2018	14:31:51	0.016
12/10/2018	14:32:51	0.014
12/10/2018	14:33:51	0.013
12/10/2018	14:34:51	0.021
12/10/2018	14:35:51	0.02
12/10/2018	14:36:51	0.02
12/10/2018	14:37:51	0.021
12/10/2018	14:38:51	0.014
12/10/2018	14:39:51	0.014
12/10/2018	14:40:51	0.014
12/10/2018	14:41:51	0.014
12/10/2018	14:42:51	0.013
12/10/2018	14:43:51	0.012
12/10/2018	14:44:51	0.015
12/10/2018	14:45:51	0.013
12/10/2018	14:46:51	0.012
12/10/2018	14:47:51	0.012
12/10/2018	14:48:51	0.015
12/10/2018	14:49:51	0.013

12/10/2018	14:50:51	0.012
12/10/2018	14:51:51	0.015
12/10/2018	14:52:51	0.013
12/10/2018	14:53:51	0.012
12/10/2018	14:55:33	0

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530162808  
 Test ID: 2  
 Test Abbreviation: Upwind\_121118  
 Start Date: 12/11/2018  
 Start Time: 8:06:41  
 Duration (dd:hh:mm:ss): 0:07:05:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 425  
 Notes:

Statistics	Channel:	AEROSOL
	Units:	mg/m <sup>3</sup>
	Average:	0.043
	Minimum:	0.027
	Time of Minimum:	14:12:41
	Date of Minimum:	12/11/2018
	Maximum:	0.128
	Time of Maximum:	8:23:41
	Date of Maximum:	12/11/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
12/11/2018	8:07:41	0.067
12/11/2018	8:08:41	0.085
12/11/2018	8:09:41	0.066
12/11/2018	8:10:41	0.065
12/11/2018	8:11:41	0.068
12/11/2018	8:12:41	0.058
12/11/2018	8:13:41	0.053
12/11/2018	8:14:41	0.061
12/11/2018	8:15:41	0.055
12/11/2018	8:16:41	0.059
12/11/2018	8:17:41	0.063
12/11/2018	8:18:41	0.069
12/11/2018	8:19:41	0.055
12/11/2018	8:20:41	0.063
12/11/2018	8:21:41	0.068
12/11/2018	8:22:41	0.09
12/11/2018	8:23:41	0.128
12/11/2018	8:24:41	0.109
12/11/2018	8:25:41	0.117
12/11/2018	8:26:41	0.106
12/11/2018	8:27:41	0.097

12/11/2018	8:28:41	0.082
12/11/2018	8:29:41	0.073
12/11/2018	8:30:41	0.061
12/11/2018	8:31:41	0.061
12/11/2018	8:32:41	0.065
12/11/2018	8:33:41	0.066
12/11/2018	8:34:41	0.058
12/11/2018	8:35:41	0.052
12/11/2018	8:36:41	0.046
12/11/2018	8:37:41	0.044
12/11/2018	8:38:41	0.044
12/11/2018	8:39:41	0.042
12/11/2018	8:40:41	0.041
12/11/2018	8:41:41	0.042
12/11/2018	8:42:41	0.045
12/11/2018	8:43:41	0.056
12/11/2018	8:44:41	0.049
12/11/2018	8:45:41	0.052
12/11/2018	8:46:41	0.047
12/11/2018	8:47:41	0.043
12/11/2018	8:48:41	0.045
12/11/2018	8:49:41	0.043
12/11/2018	8:50:41	0.041
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12/11/2018	8:52:41	0.043
12/11/2018	8:53:41	0.043
12/11/2018	8:54:41	0.041
12/11/2018	8:55:41	0.051
12/11/2018	8:56:41	0.047
12/11/2018	8:57:41	0.044
12/11/2018	8:58:41	0.053
12/11/2018	8:59:41	0.04
12/11/2018	9:00:41	0.041
12/11/2018	9:01:41	0.038
12/11/2018	9:02:41	0.038
12/11/2018	9:03:41	0.044
12/11/2018	9:04:41	0.04
12/11/2018	9:05:41	0.041
12/11/2018	9:06:41	0.038
12/11/2018	9:07:41	0.038
12/11/2018	9:08:41	0.043
12/11/2018	9:09:41	0.039
12/11/2018	9:10:41	0.039
12/11/2018	9:11:41	0.039
12/11/2018	9:12:41	0.038
12/11/2018	9:13:41	0.04
12/11/2018	9:14:41	0.04

12/11/2018	9:15:41	0.039
12/11/2018	9:16:41	0.039
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12/11/2018	9:18:41	0.044
12/11/2018	9:19:41	0.043
12/11/2018	9:20:41	0.048
12/11/2018	9:21:41	0.04
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12/11/2018	9:33:41	0.041
12/11/2018	9:34:41	0.041
12/11/2018	9:35:41	0.04
12/11/2018	9:36:41	0.04
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12/11/2018	9:38:41	0.041
12/11/2018	9:39:41	0.041
12/11/2018	9:40:41	0.04
12/11/2018	9:41:41	0.04
12/11/2018	9:42:41	0.04
12/11/2018	9:43:41	0.04
12/11/2018	9:44:41	0.043
12/11/2018	9:45:41	0.041
12/11/2018	9:46:41	0.041
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12/11/2018	9:48:41	0.042
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12/11/2018	9:50:41	0.042
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12/11/2018	9:52:41	0.042
12/11/2018	9:53:41	0.043
12/11/2018	9:54:41	0.046
12/11/2018	9:55:41	0.043
12/11/2018	9:56:41	0.042
12/11/2018	9:57:41	0.043
12/11/2018	9:58:41	0.041
12/11/2018	9:59:41	0.044
12/11/2018	10:00:41	0.043
12/11/2018	10:01:41	0.042

12/11/2018	10:02:41	0.042
12/11/2018	10:03:41	0.042
12/11/2018	10:04:41	0.043
12/11/2018	10:05:41	0.06
12/11/2018	10:06:41	0.056
12/11/2018	10:07:41	0.06
12/11/2018	10:08:41	0.044
12/11/2018	10:09:41	0.044
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12/11/2018	10:13:41	0.042
12/11/2018	10:14:41	0.043
12/11/2018	10:15:41	0.04
12/11/2018	10:16:41	0.04
12/11/2018	10:17:41	0.041
12/11/2018	10:18:41	0.049
12/11/2018	10:19:41	0.04
12/11/2018	10:20:41	0.041
12/11/2018	10:21:41	0.042
12/11/2018	10:22:41	0.055
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12/11/2018	10:24:41	0.04
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12/11/2018	10:26:41	0.041
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12/11/2018	10:28:41	0.049
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12/11/2018	10:32:41	0.044
12/11/2018	10:33:41	0.042
12/11/2018	10:34:41	0.043
12/11/2018	10:35:41	0.041
12/11/2018	10:36:41	0.044
12/11/2018	10:37:41	0.044
12/11/2018	10:38:41	0.043
12/11/2018	10:39:41	0.041
12/11/2018	10:40:41	0.039
12/11/2018	10:41:41	0.041
12/11/2018	10:42:41	0.042
12/11/2018	10:43:41	0.039
12/11/2018	10:44:41	0.038
12/11/2018	10:45:41	0.038
12/11/2018	10:46:41	0.038
12/11/2018	10:47:41	0.038
12/11/2018	10:48:41	0.038

12/11/2018	10:49:41	0.039
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12/11/2018	10:53:41	0.04
12/11/2018	10:54:41	0.04
12/11/2018	10:55:41	0.039
12/11/2018	10:56:41	0.038
12/11/2018	10:57:41	0.039
12/11/2018	10:58:41	0.043
12/11/2018	10:59:41	0.039
12/11/2018	11:00:41	0.039
12/11/2018	11:01:41	0.037
12/11/2018	11:02:41	0.04
12/11/2018	11:03:41	0.038
12/11/2018	11:04:41	0.039
12/11/2018	11:05:41	0.038
12/11/2018	11:06:41	0.038
12/11/2018	11:07:41	0.038
12/11/2018	11:08:41	0.037
12/11/2018	11:09:41	0.036
12/11/2018	11:10:41	0.043
12/11/2018	11:11:41	0.042
12/11/2018	11:12:41	0.039
12/11/2018	11:13:41	0.053
12/11/2018	11:14:41	0.045
12/11/2018	11:15:41	0.053
12/11/2018	11:16:41	0.039
12/11/2018	11:17:41	0.037
12/11/2018	11:18:41	0.037
12/11/2018	11:19:41	0.038
12/11/2018	11:20:41	0.04
12/11/2018	11:21:41	0.05
12/11/2018	11:22:41	0.064
12/11/2018	11:23:41	0.053
12/11/2018	11:24:41	0.056
12/11/2018	11:25:41	0.05
12/11/2018	11:26:41	0.045
12/11/2018	11:27:41	0.048
12/11/2018	11:28:41	0.05
12/11/2018	11:29:41	0.048
12/11/2018	11:30:41	0.043
12/11/2018	11:31:41	0.042
12/11/2018	11:32:41	0.038
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12/11/2018	11:34:41	0.037
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12/11/2018	11:37:41	0.039
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12/11/2018	11:40:41	0.047
12/11/2018	11:41:41	0.04
12/11/2018	11:42:41	0.041
12/11/2018	11:43:41	0.04
12/11/2018	11:44:41	0.043
12/11/2018	11:45:41	0.037
12/11/2018	11:46:41	0.037
12/11/2018	11:47:41	0.037
12/11/2018	11:48:41	0.036
12/11/2018	11:49:41	0.036
12/11/2018	11:50:41	0.037
12/11/2018	11:51:41	0.036
12/11/2018	11:52:41	0.036
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12/11/2018	11:55:41	0.036
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12/11/2018	11:58:41	0.034
12/11/2018	11:59:41	0.036
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12/11/2018	12:01:41	0.036
12/11/2018	12:02:41	0.035
12/11/2018	12:03:41	0.038
12/11/2018	12:04:41	0.041
12/11/2018	12:05:41	0.045
12/11/2018	12:06:41	0.04
12/11/2018	12:07:41	0.04
12/11/2018	12:08:41	0.04
12/11/2018	12:09:41	0.04
12/11/2018	12:10:41	0.038
12/11/2018	12:11:41	0.039
12/11/2018	12:12:41	0.041
12/11/2018	12:13:41	0.04
12/11/2018	12:14:41	0.041
12/11/2018	12:15:41	0.042
12/11/2018	12:16:41	0.042
12/11/2018	12:17:41	0.04
12/11/2018	12:18:41	0.042
12/11/2018	12:19:41	0.04
12/11/2018	12:20:41	0.042
12/11/2018	12:21:41	0.044
12/11/2018	12:22:41	0.053

12/11/2018	12:23:41	0.06
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12/11/2018	12:26:41	0.047
12/11/2018	12:27:41	0.051
12/11/2018	12:28:41	0.056
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12/11/2018	12:31:41	0.047
12/11/2018	12:32:41	0.041
12/11/2018	12:33:41	0.038
12/11/2018	12:34:41	0.038
12/11/2018	12:35:41	0.04
12/11/2018	12:36:41	0.039
12/11/2018	12:37:41	0.039
12/11/2018	12:38:41	0.043
12/11/2018	12:39:41	0.044
12/11/2018	12:40:41	0.052
12/11/2018	12:41:41	0.049
12/11/2018	12:42:41	0.05
12/11/2018	12:43:41	0.047
12/11/2018	12:44:41	0.043
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12/11/2018	12:58:41	0.051
12/11/2018	12:59:41	0.055
12/11/2018	13:00:41	0.051
12/11/2018	13:01:41	0.048
12/11/2018	13:02:41	0.047
12/11/2018	13:03:41	0.045
12/11/2018	13:04:41	0.049
12/11/2018	13:05:41	0.047
12/11/2018	13:06:41	0.057
12/11/2018	13:07:41	0.055
12/11/2018	13:08:41	0.049
12/11/2018	13:09:41	0.045

12/11/2018	13:10:41	0.046
12/11/2018	13:11:41	0.046
12/11/2018	13:12:41	0.044
12/11/2018	13:13:41	0.043
12/11/2018	13:14:41	0.043
12/11/2018	13:15:41	0.043
12/11/2018	13:16:41	0.043
12/11/2018	13:17:41	0.041
12/11/2018	13:18:41	0.04
12/11/2018	13:19:41	0.041
12/11/2018	13:20:41	0.039
12/11/2018	13:21:41	0.037
12/11/2018	13:22:41	0.037
12/11/2018	13:23:41	0.034
12/11/2018	13:24:41	0.034
12/11/2018	13:25:41	0.034
12/11/2018	13:26:41	0.039
12/11/2018	13:27:41	0.037
12/11/2018	13:28:41	0.035
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12/11/2018	13:31:41	0.034
12/11/2018	13:32:41	0.033
12/11/2018	13:33:41	0.033
12/11/2018	13:34:41	0.031
12/11/2018	13:35:41	0.029
12/11/2018	13:36:41	0.029
12/11/2018	13:37:41	0.029
12/11/2018	13:38:41	0.034
12/11/2018	13:39:41	0.034
12/11/2018	13:40:41	0.03
12/11/2018	13:41:41	0.031
12/11/2018	13:42:41	0.033
12/11/2018	13:43:41	0.035
12/11/2018	13:44:41	0.04
12/11/2018	13:45:41	0.035
12/11/2018	13:46:41	0.032
12/11/2018	13:47:41	0.032
12/11/2018	13:48:41	0.032
12/11/2018	13:49:41	0.031
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12/11/2018	13:51:41	0.03
12/11/2018	13:52:41	0.03
12/11/2018	13:53:41	0.03
12/11/2018	13:54:41	0.031
12/11/2018	13:55:41	0.029
12/11/2018	13:56:41	0.03

12/11/2018	13:57:41	0.03
12/11/2018	13:58:41	0.03
12/11/2018	13:59:41	0.029
12/11/2018	14:00:41	0.03
12/11/2018	14:01:41	0.029
12/11/2018	14:02:41	0.031
12/11/2018	14:03:41	0.03
12/11/2018	14:04:41	0.037
12/11/2018	14:05:41	0.033
12/11/2018	14:06:41	0.032
12/11/2018	14:07:41	0.028
12/11/2018	14:08:41	0.028
12/11/2018	14:09:41	0.028
12/11/2018	14:10:41	0.029
12/11/2018	14:11:41	0.028
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12/11/2018	14:13:41	0.028
12/11/2018	14:14:41	0.027
12/11/2018	14:15:41	0.027
12/11/2018	14:16:41	0.028
12/11/2018	14:17:41	0.029
12/11/2018	14:18:41	0.03
12/11/2018	14:19:41	0.028
12/11/2018	14:20:41	0.027
12/11/2018	14:21:41	0.028
12/11/2018	14:22:41	0.028
12/11/2018	14:23:41	0.028
12/11/2018	14:24:41	0.027
12/11/2018	14:25:41	0.027
12/11/2018	14:26:41	0.027
12/11/2018	14:27:41	0.029
12/11/2018	14:28:41	0.028
12/11/2018	14:29:41	0.028
12/11/2018	14:30:41	0.027
12/11/2018	14:31:41	0.027
12/11/2018	14:32:41	0.027
12/11/2018	14:33:41	0.029
12/11/2018	14:34:41	0.038
12/11/2018	14:35:41	0.028
12/11/2018	14:36:41	0.032
12/11/2018	14:37:41	0.032
12/11/2018	14:38:41	0.028
12/11/2018	14:39:41	0.028
12/11/2018	14:40:41	0.027
12/11/2018	14:41:41	0.028
12/11/2018	14:42:41	0.029
12/11/2018	14:43:41	0.028

12/11/2018	14:44:41	0.029
12/11/2018	14:45:41	0.034
12/11/2018	14:46:41	0.037
12/11/2018	14:47:41	0.031
12/11/2018	14:48:41	0.032
12/11/2018	14:49:41	0.031
12/11/2018	14:50:41	0.036
12/11/2018	14:51:41	0.036
12/11/2018	14:52:41	0.031
12/11/2018	14:53:41	0.033
12/11/2018	14:54:41	0.036
12/11/2018	14:55:41	0.038
12/11/2018	14:56:41	0.032
12/11/2018	14:57:41	0.03
12/11/2018	14:58:41	0.03
12/11/2018	14:59:41	0.031
12/11/2018	15:00:41	0.031
12/11/2018	15:01:41	0.029
12/11/2018	15:02:41	0.029
12/11/2018	15:03:41	0.031
12/11/2018	15:04:41	0.032
12/11/2018	15:05:41	0.031
12/11/2018	15:06:41	0.034
12/11/2018	15:07:41	0.03
12/11/2018	15:08:41	0.03
12/11/2018	15:09:41	0.03
12/11/2018	15:10:41	0.029
12/11/2018	15:11:41	0.028

TrakPro Version 4.70 ASCII Data File

Model: DustTrak II  
 Model Number: 8530  
 Serial Number: 8530162808  
 Test ID: 3  
 Test Abbreviation: Upwind\_121218  
 Start Date: 12/12/2018  
 Start Time: 8:00:08  
 Duration (dd:hh:mm:ss): 0:03:53:00  
 Log Interval (mm:ss): 1:00  
 Number of points: 233  
 Notes:

Statistics	Channel:	AEROSOL
	Units:	mg/m <sup>3</sup>
	Average:	0.039
	Minimum:	0.023
	Time of Minimum:	11:17:08
	Date of Minimum:	12/12/2018
	Maximum:	0.061
	Time of Maximum:	8:02:08
	Date of Maximum:	12/12/2018

Date	Time	AEROSOL
mm/dd/yyyy	hh:mm:ss	mg/m <sup>3</sup>
12/12/2018	8:01:08	0.055
12/12/2018	8:02:08	0.061
12/12/2018	8:03:08	0.054
12/12/2018	8:04:08	0.054
12/12/2018	8:05:08	0.056
12/12/2018	8:06:08	0.054
12/12/2018	8:07:08	0.052
12/12/2018	8:08:08	0.051
12/12/2018	8:09:08	0.053
12/12/2018	8:10:08	0.053
12/12/2018	8:11:08	0.053
12/12/2018	8:12:08	0.056
12/12/2018	8:13:08	0.054
12/12/2018	8:14:08	0.051
12/12/2018	8:15:08	0.052
12/12/2018	8:16:08	0.052
12/12/2018	8:17:08	0.052
12/12/2018	8:18:08	0.051
12/12/2018	8:19:08	0.051
12/12/2018	8:20:08	0.051
12/12/2018	8:21:08	0.05

12/12/2018	8:22:08	0.051
12/12/2018	8:23:08	0.05
12/12/2018	8:24:08	0.051
12/12/2018	8:25:08	0.051
12/12/2018	8:26:08	0.052
12/12/2018	8:27:08	0.051
12/12/2018	8:28:08	0.05
12/12/2018	8:29:08	0.05
12/12/2018	8:30:08	0.052
12/12/2018	8:31:08	0.052
12/12/2018	8:32:08	0.051
12/12/2018	8:33:08	0.051
12/12/2018	8:34:08	0.051
12/12/2018	8:35:08	0.051
12/12/2018	8:36:08	0.054
12/12/2018	8:37:08	0.059
12/12/2018	8:38:08	0.051
12/12/2018	8:39:08	0.052
12/12/2018	8:40:08	0.055
12/12/2018	8:41:08	0.049
12/12/2018	8:42:08	0.05
12/12/2018	8:43:08	0.051
12/12/2018	8:44:08	0.05
12/12/2018	8:45:08	0.05
12/12/2018	8:46:08	0.05
12/12/2018	8:47:08	0.049
12/12/2018	8:48:08	0.05
12/12/2018	8:49:08	0.05
12/12/2018	8:50:08	0.053
12/12/2018	8:51:08	0.049
12/12/2018	8:52:08	0.049
12/12/2018	8:53:08	0.047
12/12/2018	8:54:08	0.052
12/12/2018	8:55:08	0.052
12/12/2018	8:56:08	0.049
12/12/2018	8:57:08	0.048
12/12/2018	8:58:08	0.047
12/12/2018	8:59:08	0.047
12/12/2018	9:00:08	0.046
12/12/2018	9:01:08	0.046
12/12/2018	9:02:08	0.047
12/12/2018	9:03:08	0.052
12/12/2018	9:04:08	0.048
12/12/2018	9:05:08	0.048
12/12/2018	9:06:08	0.046
12/12/2018	9:07:08	0.047
12/12/2018	9:08:08	0.049

12/12/2018	9:09:08	0.05
12/12/2018	9:10:08	0.047
12/12/2018	9:11:08	0.048
12/12/2018	9:12:08	0.05
12/12/2018	9:13:08	0.046
12/12/2018	9:14:08	0.045
12/12/2018	9:15:08	0.046
12/12/2018	9:16:08	0.047
12/12/2018	9:17:08	0.046
12/12/2018	9:18:08	0.045
12/12/2018	9:19:08	0.045
12/12/2018	9:20:08	0.045
12/12/2018	9:21:08	0.045
12/12/2018	9:22:08	0.045
12/12/2018	9:23:08	0.046
12/12/2018	9:24:08	0.046
12/12/2018	9:25:08	0.046
12/12/2018	9:26:08	0.045
12/12/2018	9:27:08	0.044
12/12/2018	9:28:08	0.044
12/12/2018	9:29:08	0.045
12/12/2018	9:30:08	0.043
12/12/2018	9:31:08	0.045
12/12/2018	9:32:08	0.043
12/12/2018	9:33:08	0.046
12/12/2018	9:34:08	0.045
12/12/2018	9:35:08	0.044
12/12/2018	9:36:08	0.042
12/12/2018	9:37:08	0.042
12/12/2018	9:38:08	0.046
12/12/2018	9:39:08	0.043
12/12/2018	9:40:08	0.041
12/12/2018	9:41:08	0.041
12/12/2018	9:42:08	0.041
12/12/2018	9:43:08	0.038
12/12/2018	9:44:08	0.039
12/12/2018	9:45:08	0.038
12/12/2018	9:46:08	0.038
12/12/2018	9:47:08	0.038
12/12/2018	9:48:08	0.037
12/12/2018	9:49:08	0.037
12/12/2018	9:50:08	0.035
12/12/2018	9:51:08	0.035
12/12/2018	9:52:08	0.035
12/12/2018	9:53:08	0.035
12/12/2018	9:54:08	0.034
12/12/2018	9:55:08	0.034



12/12/2018	9:56:08	0.035
12/12/2018	9:57:08	0.036
12/12/2018	9:58:08	0.039
12/12/2018	9:59:08	0.035
12/12/2018	10:00:08	0.035
12/12/2018	10:01:08	0.035
12/12/2018	10:02:08	0.035
12/12/2018	10:03:08	0.034
12/12/2018	10:04:08	0.033
12/12/2018	10:05:08	0.036
12/12/2018	10:06:08	0.034
12/12/2018	10:07:08	0.034
12/12/2018	10:08:08	0.032
12/12/2018	10:09:08	0.033
12/12/2018	10:10:08	0.032
12/12/2018	10:11:08	0.034
12/12/2018	10:12:08	0.033
12/12/2018	10:13:08	0.035
12/12/2018	10:14:08	0.037
12/12/2018	10:15:08	0.034
12/12/2018	10:16:08	0.032
12/12/2018	10:17:08	0.033
12/12/2018	10:18:08	0.034
12/12/2018	10:19:08	0.032
12/12/2018	10:20:08	0.034
12/12/2018	10:21:08	0.035
12/12/2018	10:22:08	0.033
12/12/2018	10:23:08	0.031
12/12/2018	10:24:08	0.03
12/12/2018	10:25:08	0.031
12/12/2018	10:26:08	0.034
12/12/2018	10:27:08	0.033
12/12/2018	10:28:08	0.034
12/12/2018	10:29:08	0.033
12/12/2018	10:30:08	0.03
12/12/2018	10:31:08	0.03
12/12/2018	10:32:08	0.03
12/12/2018	10:33:08	0.03
12/12/2018	10:34:08	0.032
12/12/2018	10:35:08	0.032
12/12/2018	10:36:08	0.033
12/12/2018	10:37:08	0.032
12/12/2018	10:38:08	0.033
12/12/2018	10:39:08	0.035
12/12/2018	10:40:08	0.033
12/12/2018	10:41:08	0.032
12/12/2018	10:42:08	0.035

12/12/2018	10:43:08	0.033
12/12/2018	10:44:08	0.034
12/12/2018	10:45:08	0.033
12/12/2018	10:46:08	0.034
12/12/2018	10:47:08	0.036
12/12/2018	10:48:08	0.035
12/12/2018	10:49:08	0.036
12/12/2018	10:50:08	0.038
12/12/2018	10:51:08	0.033
12/12/2018	10:52:08	0.033
12/12/2018	10:53:08	0.037
12/12/2018	10:54:08	0.036
12/12/2018	10:55:08	0.037
12/12/2018	10:56:08	0.032
12/12/2018	10:57:08	0.03
12/12/2018	10:58:08	0.029
12/12/2018	10:59:08	0.03
12/12/2018	11:00:08	0.032
12/12/2018	11:01:08	0.031
12/12/2018	11:02:08	0.027
12/12/2018	11:03:08	0.039
12/12/2018	11:04:08	0.029
12/12/2018	11:05:08	0.037
12/12/2018	11:06:08	0.032
12/12/2018	11:07:08	0.028
12/12/2018	11:08:08	0.025
12/12/2018	11:09:08	0.024
12/12/2018	11:10:08	0.027
12/12/2018	11:11:08	0.032
12/12/2018	11:12:08	0.024
12/12/2018	11:13:08	0.027
12/12/2018	11:14:08	0.028
12/12/2018	11:15:08	0.028
12/12/2018	11:16:08	0.025
12/12/2018	11:17:08	0.023
12/12/2018	11:18:08	0.023
12/12/2018	11:19:08	0.024
12/12/2018	11:20:08	0.025
12/12/2018	11:21:08	0.026
12/12/2018	11:22:08	0.027
12/12/2018	11:23:08	0.032
12/12/2018	11:24:08	0.026
12/12/2018	11:25:08	0.023
12/12/2018	11:26:08	0.023
12/12/2018	11:27:08	0.025
12/12/2018	11:28:08	0.024
12/12/2018	11:29:08	0.026

12/12/2018	11:30:08	0.025
12/12/2018	11:31:08	0.024
12/12/2018	11:32:08	0.027
12/12/2018	11:33:08	0.026
12/12/2018	11:34:08	0.026
12/12/2018	11:35:08	0.026
12/12/2018	11:36:08	0.025
12/12/2018	11:37:08	0.025
12/12/2018	11:38:08	0.037
12/12/2018	11:39:08	0.031
12/12/2018	11:40:08	0.03
12/12/2018	11:41:08	0.024
12/12/2018	11:42:08	0.023
12/12/2018	11:43:08	0.023
12/12/2018	11:44:08	0.024
12/12/2018	11:45:08	0.026
12/12/2018	11:46:08	0.026
12/12/2018	11:47:08	0.024
12/12/2018	11:48:08	0.031
12/12/2018	11:49:08	0.046
12/12/2018	11:50:08	0.036
12/12/2018	11:51:08	0.027
12/12/2018	11:52:08	0.031
12/12/2018	11:53:08	0.027



## Upwind PID

=====  
18/10/08 09:40  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-918987  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
-----

Site ID         12345678  
User ID         12345678  
-----

Begin           2018/10/08 09:43:00  
End             2018/10/08 17:02:00  
Sample Period(s) 60  
Number of Records 440  
-----

Sensor          VOC(ppm)  
Span            100.000  
Span 2          N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/08 08:50:22 AM  
Peak            0.000  
Min             0.000  
Average         0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/8/2018 9:43:00	0.000	0.000	0.000
2	10/8/2018 9:44:00	0.000	0.000	0.000
3	10/8/2018 9:45:00	0.000	0.000	0.000
4	10/8/2018 9:46:00	0.000	0.000	0.000
5	10/8/2018 9:47:00	0.000	0.000	0.000
6	10/8/2018 9:48:00	0.000	0.000	0.000

7	10/8/2018	9:49:00	0.000	0.000	0.000
8	10/8/2018	9:50:00	0.000	0.000	0.000
9	10/8/2018	9:51:00	0.000	0.000	0.000
10	10/8/2018	9:52:00	0.000	0.000	0.000
11	10/8/2018	9:53:00	0.000	0.000	0.000
12	10/8/2018	9:54:00	0.000	0.000	0.000
13	10/8/2018	9:55:00	0.000	0.000	0.000
14	10/8/2018	9:56:00	0.000	0.000	0.000
15	10/8/2018	9:57:00	0.000	0.000	0.000
16	10/8/2018	9:58:00	0.000	0.000	0.000
17	10/8/2018	9:59:00	0.000	0.000	0.000
18	10/8/2018	10:00:00	0.000	0.000	0.000
19	10/8/2018	10:01:00	0.000	0.000	0.000
20	10/8/2018	10:02:00	0.000	0.000	0.000
21	10/8/2018	10:03:00	0.000	0.000	0.000
22	10/8/2018	10:04:00	0.000	0.000	0.000
23	10/8/2018	10:05:00	0.000	0.000	0.000
24	10/8/2018	10:06:00	0.000	0.000	0.000
25	10/8/2018	10:07:00	0.000	0.000	0.000
26	10/8/2018	10:08:00	0.000	0.000	0.000
27	10/8/2018	10:09:00	0.000	0.000	0.000
28	10/8/2018	10:10:00	0.000	0.000	0.000
29	10/8/2018	10:11:00	0.000	0.000	0.000
30	10/8/2018	10:12:00	0.000	0.000	0.000
31	10/8/2018	10:13:00	0.000	0.000	0.000
32	10/8/2018	10:14:00	0.000	0.000	0.000
33	10/8/2018	10:15:00	0.000	0.000	0.000
34	10/8/2018	10:16:00	0.000	0.000	0.000
35	10/8/2018	10:17:00	0.000	0.000	0.000
36	10/8/2018	10:18:00	0.000	0.000	0.000
37	10/8/2018	10:19:00	0.000	0.000	0.000
38	10/8/2018	10:20:00	0.000	0.000	0.000
39	10/8/2018	10:21:00	0.000	0.000	0.000
40	10/8/2018	10:22:00	0.000	0.000	0.000
41	10/8/2018	10:23:00	0.000	0.000	0.000
42	10/8/2018	10:24:00	0.000	0.000	0.000
43	10/8/2018	10:25:00	0.000	0.000	0.000
44	10/8/2018	10:26:00	0.000	0.000	0.000
45	10/8/2018	10:27:00	0.000	0.000	0.000
46	10/8/2018	10:28:00	0.000	0.000	0.000
47	10/8/2018	10:29:00	0.000	0.000	0.000
48	10/8/2018	10:30:00	0.000	0.000	0.000
49	10/8/2018	10:31:00	0.000	0.000	0.000
50	10/8/2018	10:32:00	0.000	0.000	0.000
51	10/8/2018	10:33:00	0.000	0.000	0.000
52	10/8/2018	10:34:00	0.000	0.000	0.000
53	10/8/2018	10:35:00	0.000	0.000	0.000

54	10/8/2018	10:36:00	0.000	0.000	0.000
55	10/8/2018	10:37:00	0.000	0.000	0.000
56	10/8/2018	10:38:00	0.000	0.000	0.000
57	10/8/2018	10:39:00	0.000	0.000	0.000
58	10/8/2018	10:40:00	0.000	0.000	0.000
59	10/8/2018	10:41:00	0.000	0.000	0.000
60	10/8/2018	10:42:00	0.000	0.000	0.000
61	10/8/2018	10:43:00	0.000	0.000	0.000
62	10/8/2018	10:44:00	0.000	0.000	0.000
63	10/8/2018	10:45:00	0.000	0.000	0.000
64	10/8/2018	10:46:00	0.000	0.000	0.000
65	10/8/2018	10:47:00	0.000	0.000	0.000
66	10/8/2018	10:48:00	0.000	0.000	0.000
67	10/8/2018	10:49:00	0.000	0.000	0.000
68	10/8/2018	10:50:00	0.000	0.000	0.000
69	10/8/2018	10:51:00	0.000	0.000	0.000
70	10/8/2018	10:52:00	0.000	0.000	0.000
71	10/8/2018	10:53:00	0.000	0.000	0.000
72	10/8/2018	10:54:00	0.000	0.000	0.000
73	10/8/2018	10:55:00	0.000	0.000	0.000
74	10/8/2018	10:56:00	0.000	0.000	0.000
75	10/8/2018	10:57:00	0.000	0.000	0.000
76	10/8/2018	10:58:00	0.000	0.000	0.000
77	10/8/2018	10:59:00	0.000	0.000	0.000
78	10/8/2018	11:00:00	0.000	0.000	0.000
79	10/8/2018	11:01:00	0.000	0.000	0.000
80	10/8/2018	11:02:00	0.000	0.000	0.000
81	10/8/2018	11:03:00	0.000	0.000	0.000
82	10/8/2018	11:04:00	0.000	0.000	0.000
83	10/8/2018	11:05:00	0.000	0.000	0.000
84	10/8/2018	11:06:00	0.000	0.000	0.000
85	10/8/2018	11:07:00	0.000	0.000	0.000
86	10/8/2018	11:08:00	0.000	0.000	0.000
87	10/8/2018	11:09:00	0.000	0.000	0.000
88	10/8/2018	11:10:00	0.000	0.000	0.000
89	10/8/2018	11:11:00	0.000	0.000	0.000
90	10/8/2018	11:12:00	0.000	0.000	0.000
91	10/8/2018	11:13:00	0.000	0.000	0.000
92	10/8/2018	11:14:00	0.000	0.000	0.000
93	10/8/2018	11:15:00	0.000	0.000	0.000
94	10/8/2018	11:16:00	0.000	0.000	0.000
95	10/8/2018	11:17:00	0.000	0.000	0.000
96	10/8/2018	11:18:00	0.000	0.000	0.000
97	10/8/2018	11:19:00	0.000	0.000	0.000
98	10/8/2018	11:20:00	0.000	0.000	0.000
99	10/8/2018	11:21:00	0.000	0.000	0.000
100	10/8/2018	11:22:00	0.000	0.000	0.000

101	10/8/2018	11:23:00	0.000	0.000	0.000
102	10/8/2018	11:24:00	0.000	0.000	0.000
103	10/8/2018	11:25:00	0.000	0.000	0.000
104	10/8/2018	11:26:00	0.000	0.000	0.000
105	10/8/2018	11:27:00	0.000	0.000	0.000
106	10/8/2018	11:28:00	0.000	0.000	0.000
107	10/8/2018	11:29:00	0.000	0.000	0.000
108	10/8/2018	11:30:00	0.000	0.000	0.000
109	10/8/2018	11:31:00	0.000	0.000	0.000
110	10/8/2018	11:32:00	0.000	0.000	0.000
111	10/8/2018	11:33:00	0.000	0.000	0.000
112	10/8/2018	11:34:00	0.000	0.000	0.000
113	10/8/2018	11:35:00	0.000	0.000	0.000
114	10/8/2018	11:36:00	0.000	0.000	0.000
115	10/8/2018	11:37:00	0.000	0.000	0.000
116	10/8/2018	11:38:00	0.000	0.000	0.000
117	10/8/2018	11:39:00	0.000	0.000	0.000
118	10/8/2018	11:40:00	0.000	0.000	0.000
119	10/8/2018	11:41:00	0.000	0.000	0.000
120	10/8/2018	11:42:00	0.000	0.000	0.000
121	10/8/2018	11:43:00	0.000	0.000	0.000
122	10/8/2018	11:44:00	0.000	0.000	0.000
123	10/8/2018	11:45:00	0.000	0.000	0.000
124	10/8/2018	11:46:00	0.000	0.000	0.000
125	10/8/2018	11:47:00	0.000	0.000	0.000
126	10/8/2018	11:48:00	0.000	0.000	0.000
127	10/8/2018	11:49:00	0.000	0.000	0.000
128	10/8/2018	11:50:00	0.000	0.000	0.000
129	10/8/2018	11:51:00	0.000	0.000	0.000
130	10/8/2018	11:52:00	0.000	0.000	0.000
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135	10/8/2018	11:57:00	0.000	0.000	0.000
136	10/8/2018	11:58:00	0.000	0.000	0.000
137	10/8/2018	11:59:00	0.000	0.000	0.000
138	10/8/2018	12:00:00	0.000	0.000	0.000
139	10/8/2018	12:01:00	0.000	0.000	0.000
140	10/8/2018	12:02:00	0.000	0.000	0.000
141	10/8/2018	12:03:00	0.000	0.000	0.000
142	10/8/2018	12:04:00	0.000	0.000	0.000
143	10/8/2018	12:05:00	0.000	0.000	0.000
144	10/8/2018	12:06:00	0.000	0.000	0.000
145	10/8/2018	12:07:00	0.000	0.000	0.000
146	10/8/2018	12:08:00	0.000	0.000	0.000
147	10/8/2018	12:09:00	0.000	0.000	0.000



148	10/8/2018	12:10:00	0.000	0.000	0.000
149	10/8/2018	12:11:00	0.000	0.000	0.000
150	10/8/2018	12:12:00	0.000	0.000	0.000
151	10/8/2018	12:13:00	0.000	0.000	0.000
152	10/8/2018	12:14:00	0.000	0.000	0.000
153	10/8/2018	12:15:00	0.000	0.000	0.000
154	10/8/2018	12:16:00	0.000	0.000	0.000
155	10/8/2018	12:17:00	0.000	0.000	0.000
156	10/8/2018	12:18:00	0.000	0.000	0.000
157	10/8/2018	12:19:00	0.000	0.000	0.000
158	10/8/2018	12:20:00	0.000	0.000	0.000
159	10/8/2018	12:21:00	0.000	0.000	0.000
160	10/8/2018	12:22:00	0.000	0.000	0.000
161	10/8/2018	12:23:00	0.000	0.000	0.000
162	10/8/2018	12:24:00	0.000	0.000	0.000
163	10/8/2018	12:25:00	0.000	0.000	0.000
164	10/8/2018	12:26:00	0.000	0.000	0.000
165	10/8/2018	12:27:00	0.000	0.000	0.000
166	10/8/2018	12:28:00	0.000	0.000	0.000
167	10/8/2018	12:29:00	0.000	0.000	0.000
168	10/8/2018	12:30:00	0.000	0.000	0.000
169	10/8/2018	12:31:00	0.000	0.000	0.000
170	10/8/2018	12:32:00	0.000	0.000	0.000
171	10/8/2018	12:33:00	0.000	0.000	0.000
172	10/8/2018	12:34:00	0.000	0.000	0.000
173	10/8/2018	12:35:00	0.000	0.000	0.000
174	10/8/2018	12:36:00	0.000	0.000	0.000
175	10/8/2018	12:37:00	0.000	0.000	0.000
176	10/8/2018	12:38:00	0.000	0.000	0.000
177	10/8/2018	12:39:00	0.000	0.000	0.000
178	10/8/2018	12:40:00	0.000	0.000	0.000
179	10/8/2018	12:41:00	0.000	0.000	0.000
180	10/8/2018	12:42:00	0.000	0.000	0.000
181	10/8/2018	12:43:00	0.000	0.000	0.000
182	10/8/2018	12:44:00	0.000	0.000	0.000
183	10/8/2018	12:45:00	0.000	0.000	0.000
184	10/8/2018	12:46:00	0.000	0.000	0.000
185	10/8/2018	12:47:00	0.000	0.000	0.000
186	10/8/2018	12:48:00	0.000	0.000	0.000
187	10/8/2018	12:49:00	0.000	0.000	0.000
188	10/8/2018	12:50:00	0.000	0.000	0.000
189	10/8/2018	12:51:00	0.000	0.000	0.000
190	10/8/2018	12:52:00	0.000	0.000	0.000
191	10/8/2018	12:53:00	0.000	0.000	0.000
192	10/8/2018	12:54:00	0.000	0.000	0.000
193	10/8/2018	12:55:00	0.000	0.000	0.000
194	10/8/2018	12:56:00	0.000	0.000	0.000

195	10/8/2018	12:57:00	0.000	0.000	0.000
196	10/8/2018	12:58:00	0.000	0.000	0.000
197	10/8/2018	12:59:00	0.000	0.000	0.000
198	10/8/2018	13:00:00	0.000	0.000	0.000
199	10/8/2018	13:01:00	0.000	0.000	0.000
200	10/8/2018	13:02:00	0.000	0.000	0.000
201	10/8/2018	13:03:00	0.000	0.000	0.000
202	10/8/2018	13:04:00	0.000	0.000	0.000
203	10/8/2018	13:05:00	0.000	0.000	0.000
204	10/8/2018	13:06:00	0.000	0.000	0.000
205	10/8/2018	13:07:00	0.000	0.000	0.000
206	10/8/2018	13:08:00	0.000	0.000	0.000
207	10/8/2018	13:09:00	0.000	0.000	0.000
208	10/8/2018	13:10:00	0.000	0.000	0.000
209	10/8/2018	13:11:00	0.000	0.000	0.000
210	10/8/2018	13:12:00	0.000	0.000	0.000
211	10/8/2018	13:13:00	0.000	0.000	0.000
212	10/8/2018	13:14:00	0.000	0.000	0.000
213	10/8/2018	13:15:00	0.000	0.000	0.000
214	10/8/2018	13:16:00	0.000	0.000	0.000
215	10/8/2018	13:17:00	0.000	0.000	0.000
216	10/8/2018	13:18:00	0.000	0.000	0.000
217	10/8/2018	13:19:00	0.000	0.000	0.000
218	10/8/2018	13:20:00	0.000	0.000	0.000
219	10/8/2018	13:21:00	0.000	0.000	0.000
220	10/8/2018	13:22:00	0.000	0.000	0.000
221	10/8/2018	13:23:00	0.000	0.000	0.000
222	10/8/2018	13:24:00	0.000	0.000	0.000
223	10/8/2018	13:25:00	0.000	0.000	0.000
224	10/8/2018	13:26:00	0.000	0.000	0.000
225	10/8/2018	13:27:00	0.000	0.000	0.000
226	10/8/2018	13:28:00	0.000	0.000	0.000
227	10/8/2018	13:29:00	0.000	0.000	0.000
228	10/8/2018	13:30:00	0.000	0.000	0.000
229	10/8/2018	13:31:00	0.000	0.000	0.000
230	10/8/2018	13:32:00	0.000	0.000	0.000
231	10/8/2018	13:33:00	0.000	0.000	0.000
232	10/8/2018	13:34:00	0.000	0.000	0.000
233	10/8/2018	13:35:00	0.000	0.000	0.000
234	10/8/2018	13:36:00	0.000	0.000	0.000
235	10/8/2018	13:37:00	0.000	0.000	0.000
236	10/8/2018	13:38:00	0.000	0.000	0.000
237	10/8/2018	13:39:00	0.000	0.000	0.000
238	10/8/2018	13:40:00	0.000	0.000	0.000
239	10/8/2018	13:41:00	0.000	0.000	0.000
240	10/8/2018	13:42:00	0.000	0.000	0.000
241	10/8/2018	13:43:00	0.000	0.000	0.000

242	10/8/2018	13:44:00	0.000	0.000	0.000
243	10/8/2018	13:45:00	0.000	0.000	0.000
244	10/8/2018	13:46:00	0.000	0.000	0.000
245	10/8/2018	13:47:00	0.000	0.000	0.000
246	10/8/2018	13:48:00	0.000	0.000	0.000
247	10/8/2018	13:49:00	0.000	0.000	0.000
248	10/8/2018	13:50:00	0.000	0.000	0.000
249	10/8/2018	13:51:00	0.000	0.000	0.000
250	10/8/2018	13:52:00	0.000	0.000	0.000
251	10/8/2018	13:53:00	0.000	0.000	0.000
252	10/8/2018	13:54:00	0.000	0.000	0.000
253	10/8/2018	13:55:00	0.000	0.000	0.000
254	10/8/2018	13:56:00	0.000	0.000	0.000
255	10/8/2018	13:57:00	0.000	0.000	0.000
256	10/8/2018	13:58:00	0.000	0.000	0.000
257	10/8/2018	13:59:00	0.000	0.000	0.000
258	10/8/2018	14:00:00	0.000	0.000	0.000
259	10/8/2018	14:01:00	0.000	0.000	0.000
260	10/8/2018	14:02:00	0.000	0.000	0.000
261	10/8/2018	14:03:00	0.000	0.000	0.000
262	10/8/2018	14:04:00	0.000	0.000	0.000
263	10/8/2018	14:05:00	0.000	0.000	0.000
264	10/8/2018	14:06:00	0.000	0.000	0.000
265	10/8/2018	14:07:00	0.000	0.000	0.000
266	10/8/2018	14:08:00	0.000	0.000	0.000
267	10/8/2018	14:09:00	0.000	0.000	0.000
268	10/8/2018	14:10:00	0.000	0.000	0.000
269	10/8/2018	14:11:00	0.000	0.000	0.000
270	10/8/2018	14:12:00	0.000	0.000	0.000
271	10/8/2018	14:13:00	0.000	0.000	0.000
272	10/8/2018	14:14:00	0.000	0.000	0.000
273	10/8/2018	14:15:00	0.000	0.000	0.000
274	10/8/2018	14:16:00	0.000	0.000	0.000
275	10/8/2018	14:17:00	0.000	0.000	0.000
276	10/8/2018	14:18:00	0.000	0.000	0.000
277	10/8/2018	14:19:00	0.000	0.000	0.000
278	10/8/2018	14:20:00	0.000	0.000	0.000
279	10/8/2018	14:21:00	0.000	0.000	0.000
280	10/8/2018	14:22:00	0.000	0.000	0.000
281	10/8/2018	14:23:00	0.000	0.000	0.000
282	10/8/2018	14:24:00	0.000	0.000	0.000
283	10/8/2018	14:25:00	0.000	0.000	0.000
284	10/8/2018	14:26:00	0.000	0.000	0.000
285	10/8/2018	14:27:00	0.000	0.000	0.000
286	10/8/2018	14:28:00	0.000	0.000	0.000
287	10/8/2018	14:29:00	0.000	0.000	0.000
288	10/8/2018	14:30:00	0.000	0.000	0.000

289	10/8/2018	14:31:00	0.000	0.000	0.000
290	10/8/2018	14:32:00	0.000	0.000	0.000
291	10/8/2018	14:33:00	0.000	0.000	0.000
292	10/8/2018	14:34:00	0.000	0.000	0.000
293	10/8/2018	14:35:00	0.000	0.000	0.000
294	10/8/2018	14:36:00	0.000	0.000	0.000
295	10/8/2018	14:37:00	0.000	0.000	0.000
296	10/8/2018	14:38:00	0.000	0.000	0.000
297	10/8/2018	14:39:00	0.000	0.000	0.000
298	10/8/2018	14:40:00	0.000	0.000	0.000
299	10/8/2018	14:41:00	0.000	0.000	0.000
300	10/8/2018	14:42:00	0.000	0.000	0.000
301	10/8/2018	14:43:00	0.000	0.000	0.000
302	10/8/2018	14:44:00	0.000	0.000	0.000
303	10/8/2018	14:45:00	0.000	0.000	0.000
304	10/8/2018	14:46:00	0.000	0.000	0.000
305	10/8/2018	14:47:00	0.000	0.000	0.000
306	10/8/2018	14:48:00	0.000	0.000	0.000
307	10/8/2018	14:49:00	0.000	0.000	0.000
308	10/8/2018	14:50:00	0.000	0.000	0.000
309	10/8/2018	14:51:00	0.000	0.000	0.000
310	10/8/2018	14:52:00	0.000	0.000	0.000
311	10/8/2018	14:53:00	0.000	0.000	0.000
312	10/8/2018	14:54:00	0.000	0.000	0.000
313	10/8/2018	14:55:00	0.000	0.000	0.000
314	10/8/2018	14:56:00	0.000	0.000	0.000
315	10/8/2018	14:57:00	0.000	0.000	0.000
316	10/8/2018	14:58:00	0.000	0.000	0.000
317	10/8/2018	14:59:00	0.000	0.000	0.000
318	10/8/2018	15:00:00	0.000	0.000	0.000
319	10/8/2018	15:01:00	0.000	0.000	0.000
320	10/8/2018	15:02:00	0.000	0.000	0.000
321	10/8/2018	15:03:00	0.000	0.000	0.000
322	10/8/2018	15:04:00	0.000	0.000	0.000
323	10/8/2018	15:05:00	0.000	0.000	0.000
324	10/8/2018	15:06:00	0.000	0.000	0.000
325	10/8/2018	15:07:00	0.000	0.000	0.000
326	10/8/2018	15:08:00	0.000	0.000	0.000
327	10/8/2018	15:09:00	0.000	0.000	0.000
328	10/8/2018	15:10:00	0.000	0.000	0.000
329	10/8/2018	15:11:00	0.000	0.000	0.000
330	10/8/2018	15:12:00	0.000	0.000	0.000
331	10/8/2018	15:13:00	0.000	0.000	0.000
332	10/8/2018	15:14:00	0.000	0.000	0.000
333	10/8/2018	15:15:00	0.000	0.000	0.000
334	10/8/2018	15:16:00	0.000	0.000	0.000
335	10/8/2018	15:17:00	0.000	0.000	0.000

336	10/8/2018	15:18:00	0.000	0.000	0.000
337	10/8/2018	15:19:00	0.000	0.000	0.000
338	10/8/2018	15:20:00	0.000	0.000	0.000
339	10/8/2018	15:21:00	0.000	0.000	0.000
340	10/8/2018	15:22:00	0.000	0.000	0.000
341	10/8/2018	15:23:00	0.000	0.000	0.000
342	10/8/2018	15:24:00	0.000	0.000	0.000
343	10/8/2018	15:25:00	0.000	0.000	0.000
344	10/8/2018	15:26:00	0.000	0.000	0.000
345	10/8/2018	15:27:00	0.000	0.000	0.000
346	10/8/2018	15:28:00	0.000	0.000	0.000
347	10/8/2018	15:29:00	0.000	0.000	0.000
348	10/8/2018	15:30:00	0.000	0.000	0.000
349	10/8/2018	15:31:00	0.000	0.000	0.000
350	10/8/2018	15:32:00	0.000	0.000	0.000
351	10/8/2018	15:33:00	0.000	0.000	0.000
352	10/8/2018	15:34:00	0.000	0.000	0.000
353	10/8/2018	15:35:00	0.000	0.000	0.000
354	10/8/2018	15:36:00	0.000	0.000	0.000
355	10/8/2018	15:37:00	0.000	0.000	0.000
356	10/8/2018	15:38:00	0.000	0.000	0.000
357	10/8/2018	15:39:00	0.000	0.000	0.000
358	10/8/2018	15:40:00	0.000	0.000	0.000
359	10/8/2018	15:41:00	0.000	0.000	0.000
360	10/8/2018	15:42:00	0.000	0.000	0.000
361	10/8/2018	15:43:00	0.000	0.000	0.000
362	10/8/2018	15:44:00	0.000	0.000	0.000
363	10/8/2018	15:45:00	0.000	0.000	0.000
364	10/8/2018	15:46:00	0.000	0.000	0.000
365	10/8/2018	15:47:00	0.000	0.000	0.000
366	10/8/2018	15:48:00	0.000	0.000	0.000
367	10/8/2018	15:49:00	0.000	0.000	0.000
368	10/8/2018	15:50:00	0.000	0.000	0.000
369	10/8/2018	15:51:00	0.000	0.000	0.000
370	10/8/2018	15:52:00	0.000	0.000	0.000
371	10/8/2018	15:53:00	0.000	0.000	0.000
372	10/8/2018	15:54:00	0.000	0.000	0.000
373	10/8/2018	15:55:00	0.000	0.000	0.000
374	10/8/2018	15:56:00	0.000	0.000	0.000
375	10/8/2018	15:57:00	0.000	0.000	0.000
376	10/8/2018	15:58:00	0.000	0.000	0.000
377	10/8/2018	15:59:00	0.000	0.000	0.000
378	10/8/2018	16:00:00	0.000	0.000	0.000
379	10/8/2018	16:01:00	0.000	0.000	0.000
380	10/8/2018	16:02:00	0.000	0.000	0.000
381	10/8/2018	16:03:00	0.000	0.000	0.000
382	10/8/2018	16:04:00	0.000	0.000	0.000

383	10/8/2018	16:05:00	0.000	0.000	0.000
384	10/8/2018	16:06:00	0.000	0.000	0.000
385	10/8/2018	16:07:00	0.000	0.000	0.000
386	10/8/2018	16:08:00	0.000	0.000	0.000
387	10/8/2018	16:09:00	0.000	0.000	0.000
388	10/8/2018	16:10:00	0.000	0.000	0.000
389	10/8/2018	16:11:00	0.000	0.000	0.000
390	10/8/2018	16:12:00	0.000	0.000	0.000
391	10/8/2018	16:13:00	0.000	0.000	0.000
392	10/8/2018	16:14:00	0.000	0.000	0.000
393	10/8/2018	16:15:00	0.000	0.000	0.000
394	10/8/2018	16:16:00	0.000	0.000	0.000
395	10/8/2018	16:17:00	0.000	0.000	0.000
396	10/8/2018	16:18:00	0.000	0.000	0.000
397	10/8/2018	16:19:00	0.000	0.000	0.000
398	10/8/2018	16:20:00	0.000	0.000	0.000
399	10/8/2018	16:21:00	0.000	0.000	0.000
400	10/8/2018	16:22:00	0.000	0.000	0.000
401	10/8/2018	16:23:00	0.000	0.000	0.000
402	10/8/2018	16:24:00	0.000	0.000	0.000
403	10/8/2018	16:25:00	0.000	0.000	0.000
404	10/8/2018	16:26:00	0.000	0.000	0.000
405	10/8/2018	16:27:00	0.000	0.000	0.000
406	10/8/2018	16:28:00	0.000	0.000	0.000
407	10/8/2018	16:29:00	0.000	0.000	0.000
408	10/8/2018	16:30:00	0.000	0.000	0.000
409	10/8/2018	16:31:00	0.000	0.000	0.000
410	10/8/2018	16:32:00	0.000	0.000	0.000
411	10/8/2018	16:33:00	0.000	0.000	0.000
412	10/8/2018	16:34:00	0.000	0.000	0.000
413	10/8/2018	16:35:00	0.000	0.000	0.000
414	10/8/2018	16:36:00	0.000	0.000	0.000
415	10/8/2018	16:37:00	0.000	0.000	0.000
416	10/8/2018	16:38:00	0.000	0.000	0.000
417	10/8/2018	16:39:00	0.000	0.000	0.000
418	10/8/2018	16:40:00	0.000	0.000	0.000
419	10/8/2018	16:41:00	0.000	0.000	0.000
420	10/8/2018	16:42:00	0.000	0.000	0.000
421	10/8/2018	16:43:00	0.000	0.000	0.000
422	10/8/2018	16:44:00	0.000	0.000	0.000
423	10/8/2018	16:45:00	0.000	0.000	0.000
424	10/8/2018	16:46:00	0.000	0.000	0.000
425	10/8/2018	16:47:00	0.000	0.000	0.000
426	10/8/2018	16:48:00	0.000	0.000	0.000
427	10/8/2018	16:49:00	0.000	0.000	0.000
428	10/8/2018	16:50:00	0.000	0.000	0.000
429	10/8/2018	16:51:00	0.000	0.000	0.000

430	10/8/2018	16:52:00	0.000	0.000	0.000
431	10/8/2018	16:53:00	0.000	0.000	0.000
432	10/8/2018	16:54:00	0.000	0.000	0.000
433	10/8/2018	16:55:00	0.000	0.000	0.000
434	10/8/2018	16:56:00	0.000	0.000	0.000
435	10/8/2018	16:57:00	0.000	0.000	0.000
436	10/8/2018	16:58:00	0.000	0.000	0.000
437	10/8/2018	16:59:00	0.000	0.000	0.000
438	10/8/2018	17:00:00	0.000	0.000	0.000
439	10/8/2018	17:01:00	0.000	0.000	0.000
440	10/8/2018	17:02:00	0.000	0.000	0.000

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18/10/09 07:53  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-918987  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type    Avg; Max; Real  
Datalog Mode    Continuous  
Datalog Type    Auto  
Diagnostic Mode  No  
Stop Reason     Power Down  
-----

Site ID         12345678  
User ID         12345678  
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Begin           2018/10/09 07:55:00  
End             2018/10/09 16:40:00  
Sample Period(s) 60  
Number of Records 523  
-----

Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/09 07:10  
Peak           0.000  
Min            0.000  
Average        0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/9/2018 7:55:00	0.000	0.000	0.000
2	10/9/2018 7:56:00	0.000	0.000	0.000
3	10/9/2018 7:57:00	0.000	0.000	0.000
4	10/9/2018 7:58:00	0.000	0.000	0.000
5	10/9/2018 7:59:00	0.000	0.000	0.000
6	10/9/2018 8:00:00	0.000	0.000	0.000



7	10/9/2018	8:01:00	0.000	0.000	0.000
8	10/9/2018	8:02:00	0.000	0.000	0.000
9	10/9/2018	8:03:00	0.000	0.000	0.000
10	10/9/2018	8:04:00	0.000	0.000	0.000
11	10/9/2018	8:05:00	0.000	0.000	0.000
12	10/9/2018	8:06:00	0.000	0.000	0.000
13	10/9/2018	8:07:00	0.000	0.000	0.000
14	10/9/2018	8:08:00	0.000	0.000	0.000
15	10/9/2018	8:09:00	0.000	0.000	0.000
16	10/9/2018	8:10:00	0.000	0.000	0.000
17	10/9/2018	8:11:00	0.000	0.000	0.000
18	10/9/2018	8:12:00	0.000	0.000	0.000
19	10/9/2018	8:13:00	0.000	0.000	0.000
20	10/9/2018	8:14:00	0.000	0.000	0.000
21	10/9/2018	8:15:00	0.000	0.000	0.000
22	10/9/2018	8:16:00	0.000	0.000	0.000
23	10/9/2018	8:17:00	0.000	0.000	0.000
24	10/9/2018	8:18:00	0.000	0.000	0.000
25	10/9/2018	8:19:00	0.000	0.000	0.000
26	10/9/2018	8:20:00	0.000	0.000	0.000
27	10/9/2018	8:21:00	0.000	0.000	0.000
28	10/9/2018	8:22:00	0.000	0.000	0.000
29	10/9/2018	8:23:00	0.000	0.000	0.000
30	10/9/2018	8:24:00	0.000	0.000	0.000
31	10/9/2018	8:25:00	0.000	0.000	0.000
32	10/9/2018	8:26:00	0.000	0.000	0.000
33	10/9/2018	8:27:00	0.000	0.000	0.000
34	10/9/2018	8:28:00	0.000	0.000	0.000
35	10/9/2018	8:29:00	0.000	0.000	0.000
36	10/9/2018	8:30:00	0.000	0.000	0.000
37	10/9/2018	8:31:00	0.000	0.000	0.000
38	10/9/2018	8:32:00	0.000	0.000	0.000
39	10/9/2018	8:33:00	0.000	0.000	0.000
40	10/9/2018	8:34:00	0.000	0.000	0.000
41	10/9/2018	8:35:00	0.000	0.000	0.000
42	10/9/2018	8:36:00	0.000	0.000	0.000
43	10/9/2018	8:37:00	0.000	0.000	0.000
44	10/9/2018	8:38:00	0.000	0.000	0.000
45	10/9/2018	8:39:00	0.000	0.000	0.000
46	10/9/2018	8:40:00	0.000	0.000	0.000
47	10/9/2018	8:41:00	0.000	0.000	0.000
48	10/9/2018	8:42:00	0.000	0.000	0.000
49	10/9/2018	8:43:00	0.000	0.000	0.000
50	10/9/2018	8:44:00	0.000	0.000	0.000
51	10/9/2018	8:45:00	0.000	0.000	0.000
52	10/9/2018	8:46:00	0.000	0.000	0.000
53	10/9/2018	8:47:00	0.000	0.000	0.000

54	10/9/2018	8:48:00	0.000	0.000	0.000
55	10/9/2018	8:49:00	0.000	0.000	0.000
56	10/9/2018	8:50:00	0.000	0.000	0.000
57	10/9/2018	8:51:00	0.000	0.000	0.000
58	10/9/2018	8:52:00	0.000	0.000	0.000
59	10/9/2018	8:53:00	0.000	0.000	0.000
60	10/9/2018	8:54:00	0.000	0.000	0.000
61	10/9/2018	8:55:00	0.000	0.000	0.000
62	10/9/2018	8:56:00	0.000	0.000	0.000
63	10/9/2018	8:57:00	0.000	0.000	0.000
64	10/9/2018	8:58:00	0.000	0.000	0.000
65	10/9/2018	8:59:00	0.000	0.000	0.000
66	10/9/2018	9:00:00	0.000	0.000	0.000
67	10/9/2018	9:01:00	0.000	0.000	0.000
68	10/9/2018	9:02:00	0.000	0.000	0.000
69	10/9/2018	9:03:00	0.000	0.000	0.000
70	10/9/2018	9:04:00	0.000	0.000	0.000
71	10/9/2018	9:05:00	0.000	0.000	0.000
72	10/9/2018	9:06:00	0.000	0.000	0.000
73	10/9/2018	9:07:00	0.000	0.000	0.000
74	10/9/2018	9:08:00	0.000	0.000	0.000
75	10/9/2018	9:09:00	0.000	0.000	0.000
76	10/9/2018	9:10:00	0.000	0.000	0.000
77	10/9/2018	9:11:00	0.000	0.000	0.000
78	10/9/2018	9:12:00	0.000	0.000	0.000
79	10/9/2018	9:13:00	0.000	0.000	0.000
80	10/9/2018	9:14:00	0.000	0.000	0.000
81	10/9/2018	9:15:00	0.000	0.000	0.000
82	10/9/2018	9:16:00	0.000	0.000	0.000
83	10/9/2018	9:17:00	0.000	0.000	0.000
84	10/9/2018	9:18:00	0.000	0.000	0.000
85	10/9/2018	9:19:00	0.000	0.000	0.000
86	10/9/2018	9:20:00	0.000	0.000	0.000
87	10/9/2018	9:21:00	0.000	0.000	0.000
88	10/9/2018	9:22:00	0.000	0.000	0.000
89	10/9/2018	9:23:00	0.000	0.000	0.000
90	10/9/2018	9:24:00	0.000	0.000	0.000
91	10/9/2018	9:25:00	0.000	0.000	0.000
92	10/9/2018	9:26:00	0.000	0.000	0.000
93	10/9/2018	9:27:00	0.000	0.000	0.000
94	10/9/2018	9:28:00	0.000	0.000	0.000
95	10/9/2018	9:29:00	0.000	0.000	0.000
96	10/9/2018	9:30:00	0.000	0.000	0.000
97	10/9/2018	9:31:00	0.000	0.000	0.000
98	10/9/2018	9:32:00	0.000	0.000	0.000
99	10/9/2018	9:33:00	0.000	0.000	0.000
100	10/9/2018	9:34:00	0.000	0.000	0.000

101	10/9/2018	9:35:00	0.000	0.000	0.000
102	10/9/2018	9:36:00	0.000	0.000	0.000
103	10/9/2018	9:37:00	0.000	0.000	0.000
104	10/9/2018	9:38:00	0.000	0.000	0.000
105	10/9/2018	9:39:00	0.000	0.000	0.000
106	10/9/2018	9:40:00	0.000	0.000	0.000
107	10/9/2018	9:41:00	0.000	0.000	0.000
108	10/9/2018	9:42:00	0.000	0.000	0.000
109	10/9/2018	9:43:00	0.000	0.000	0.000
110	10/9/2018	9:44:00	0.000	0.000	0.000
111	10/9/2018	9:45:00	0.000	0.000	0.000
112	10/9/2018	9:46:00	0.000	0.000	0.000
113	10/9/2018	9:47:00	0.000	0.000	0.000
114	10/9/2018	9:48:00	0.000	0.000	0.000
115	10/9/2018	9:49:00	0.000	0.000	0.000
116	10/9/2018	9:50:00	0.000	0.000	0.000
117	10/9/2018	9:51:00	0.000	0.000	0.000
118	10/9/2018	9:52:00	0.000	0.000	0.000
119	10/9/2018	9:53:00	0.000	0.000	0.000
120	10/9/2018	9:54:00	0.000	0.000	0.000
121	10/9/2018	9:55:00	0.000	0.000	0.000
122	10/9/2018	9:56:00	0.000	0.000	0.000
123	10/9/2018	9:57:00	0.000	0.000	0.000
124	10/9/2018	9:58:00	0.000	0.000	0.000
125	10/9/2018	9:59:00	0.000	0.000	0.000
126	10/9/2018	10:00:00	0.000	0.000	0.000
127	10/9/2018	10:01:00	0.000	0.000	0.000
128	10/9/2018	10:02:00	0.000	0.000	0.000
129	10/9/2018	10:03:00	0.000	0.000	0.000
130	10/9/2018	10:04:00	0.000	0.000	0.000
131	10/9/2018	10:05:00	0.000	0.000	0.000
132	10/9/2018	10:06:00	0.000	0.000	0.000
133	10/9/2018	10:07:00	0.000	0.000	0.000
134	10/9/2018	10:08:00	0.000	0.000	0.000
135	10/9/2018	10:09:00	0.000	0.000	0.000
136	10/9/2018	10:10:00	0.000	0.000	0.000
137	10/9/2018	10:11:00	0.000	0.000	0.000
138	10/9/2018	10:12:00	0.000	0.000	0.000
139	10/9/2018	10:13:00	0.000	0.000	0.000
140	10/9/2018	10:14:00	0.000	0.000	0.000
141	10/9/2018	10:15:00	0.000	0.000	0.000
142	10/9/2018	10:16:00	0.000	0.000	0.000
143	10/9/2018	10:17:00	0.000	0.000	0.000
144	10/9/2018	10:18:00	0.000	0.000	0.000
145	10/9/2018	10:19:00	0.000	0.000	0.000
146	10/9/2018	10:20:00	0.000	0.000	0.000
147	10/9/2018	10:21:00	0.000	0.000	0.000

148	10/9/2018	10:22:00	0.000	0.000	0.000
149	10/9/2018	10:23:00	0.000	0.000	0.000
150	10/9/2018	10:24:00	0.000	0.000	0.000
151	10/9/2018	10:25:00	0.000	0.000	0.000
152	10/9/2018	10:26:00	0.000	0.000	0.000
153	10/9/2018	10:27:00	0.000	0.000	0.000
154	10/9/2018	10:28:00	0.000	0.000	0.000
155	10/9/2018	10:29:00	0.000	0.000	0.000
156	10/9/2018	10:30:00	0.000	0.000	0.000
157	10/9/2018	10:31:00	0.000	0.000	0.000
158	10/9/2018	10:32:00	0.000	0.000	0.000
159	10/9/2018	10:33:00	0.000	0.000	0.000
160	10/9/2018	10:34:00	0.000	0.000	0.000
161	10/9/2018	10:35:00	0.000	0.000	0.000
162	10/9/2018	10:36:00	0.000	0.000	0.000
163	10/9/2018	10:37:00	0.000	0.000	0.000
164	10/9/2018	10:38:00	0.000	0.000	0.000
165	10/9/2018	10:39:00	0.000	0.000	0.000
166	10/9/2018	10:40:00	0.000	0.000	0.000
167	10/9/2018	10:41:00	0.000	0.000	0.000
168	10/9/2018	10:42:00	0.000	0.000	0.000
169	10/9/2018	10:43:00	0.000	0.000	0.000
170	10/9/2018	10:44:00	0.000	0.000	0.000
171	10/9/2018	10:45:00	0.000	0.000	0.000
172	10/9/2018	10:46:00	0.000	0.000	0.000
173	10/9/2018	10:47:00	0.000	0.000	0.000
174	10/9/2018	10:48:00	0.000	0.000	0.000
175	10/9/2018	10:49:00	0.000	0.000	0.000
176	10/9/2018	10:50:00	0.000	0.000	0.000
177	10/9/2018	10:51:00	0.000	0.000	0.000
178	10/9/2018	10:52:00	0.000	0.000	0.000
179	10/9/2018	10:53:00	0.000	0.000	0.000
180	10/9/2018	10:54:00	0.000	0.000	0.000
181	10/9/2018	10:55:00	0.000	0.000	0.000
182	10/9/2018	10:56:00	0.000	0.000	0.000
183	10/9/2018	10:57:00	0.000	0.000	0.000
184	10/9/2018	10:58:00	0.000	0.000	0.000
185	10/9/2018	10:59:00	0.000	0.000	0.000
186	10/9/2018	11:00:00	0.000	0.000	0.000
187	10/9/2018	11:01:00	0.000	0.000	0.000
188	10/9/2018	11:02:00	0.000	0.000	0.000
189	10/9/2018	11:03:00	0.000	0.000	0.000
190	10/9/2018	11:04:00	0.000	0.000	0.000
191	10/9/2018	11:05:00	0.000	0.000	0.000
192	10/9/2018	11:06:00	0.000	0.000	0.000
193	10/9/2018	11:07:00	0.000	0.000	0.000
194	10/9/2018	11:08:00	0.000	0.000	0.000

195	10/9/2018	11:09:00	0.000	0.000	0.000
196	10/9/2018	11:10:00	0.000	0.000	0.000
197	10/9/2018	11:11:00	0.000	0.000	0.000
198	10/9/2018	11:12:00	0.000	0.000	0.000
199	10/9/2018	11:13:00	0.000	0.000	0.000
200	10/9/2018	11:14:00	0.000	0.000	0.000
201	10/9/2018	11:15:00	0.000	0.000	0.000
202	10/9/2018	11:16:00	0.000	0.000	0.000
203	10/9/2018	11:17:00	0.000	0.000	0.000
204	10/9/2018	11:18:00	0.000	0.000	0.000
205	10/9/2018	11:19:00	0.000	0.000	0.000
206	10/9/2018	11:20:00	0.000	0.000	0.000
207	10/9/2018	11:24:00	0.000	0.000	0.000
208	10/9/2018	11:25:00	0.000	0.000	0.000
209	10/9/2018	11:26:00	0.000	0.000	0.000
210	10/9/2018	11:27:00	0.000	0.000	0.000
211	10/9/2018	11:28:00	0.000	0.000	0.000
212	10/9/2018	11:29:00	0.000	0.000	0.000
213	10/9/2018	11:30:00	0.000	0.000	0.000
214	10/9/2018	11:31:00	0.000	0.000	0.000
215	10/9/2018	11:32:00	0.000	0.000	0.000
216	10/9/2018	11:33:00	0.000	0.000	0.000
217	10/9/2018	11:34:00	0.000	0.000	0.000
218	10/9/2018	11:35:00	0.000	0.000	0.000
219	10/9/2018	11:36:00	0.000	0.000	0.000
220	10/9/2018	11:37:00	0.000	0.000	0.000
221	10/9/2018	11:38:00	0.000	0.000	0.000
222	10/9/2018	11:39:00	0.000	0.000	0.000
223	10/9/2018	11:40:00	0.000	0.000	0.000
224	10/9/2018	11:41:00	0.000	0.000	0.000
225	10/9/2018	11:42:00	0.000	0.000	0.000
226	10/9/2018	11:43:00	0.000	0.000	0.000
227	10/9/2018	11:44:00	0.000	0.000	0.000
228	10/9/2018	11:45:00	0.000	0.000	0.000
229	10/9/2018	11:46:00	0.000	0.000	0.000
230	10/9/2018	11:47:00	0.000	0.000	0.000
231	10/9/2018	11:48:00	0.000	0.000	0.000
232	10/9/2018	11:49:00	0.000	0.000	0.000
233	10/9/2018	11:50:00	0.000	0.000	0.000
234	10/9/2018	11:51:00	0.000	0.000	0.000
235	10/9/2018	11:52:00	0.000	0.000	0.000
236	10/9/2018	11:53:00	0.000	0.000	0.000
237	10/9/2018	11:54:00	0.000	0.000	0.000
238	10/9/2018	11:55:00	0.000	0.000	0.000
239	10/9/2018	11:56:00	0.000	0.000	0.000
240	10/9/2018	11:57:00	0.000	0.000	0.000
241	10/9/2018	11:58:00	0.000	0.000	0.000

242	10/9/2018	11:59:00	0.000	0.000	0.000
243	10/9/2018	12:00:00	0.000	0.000	0.000
244	10/9/2018	12:01:00	0.000	0.000	0.000
245	10/9/2018	12:02:00	0.000	0.000	0.000
246	10/9/2018	12:03:00	0.000	0.000	0.000
247	10/9/2018	12:04:00	0.000	0.000	0.000
248	10/9/2018	12:05:00	0.000	0.000	0.000
249	10/9/2018	12:06:00	0.000	0.000	0.000
250	10/9/2018	12:07:00	0.000	0.000	0.000
251	10/9/2018	12:08:00	0.000	0.000	0.000
252	10/9/2018	12:09:00	0.000	0.000	0.000
253	10/9/2018	12:10:00	0.000	0.000	0.000
254	10/9/2018	12:11:00	0.000	0.000	0.000
255	10/9/2018	12:12:00	0.000	0.000	0.000
256	10/9/2018	12:13:00	0.000	0.000	0.000
257	10/9/2018	12:14:00	0.000	0.000	0.000
258	10/9/2018	12:15:00	0.000	0.000	0.000
259	10/9/2018	12:16:00	0.000	0.000	0.000
260	10/9/2018	12:17:00	0.000	0.000	0.000
261	10/9/2018	12:18:00	0.000	0.000	0.000
262	10/9/2018	12:19:00	0.000	0.000	0.000
263	10/9/2018	12:20:00	0.000	0.000	0.000
264	10/9/2018	12:21:00	0.000	0.000	0.000
265	10/9/2018	12:22:00	0.000	0.000	0.000
266	10/9/2018	12:23:00	0.000	0.000	0.000
267	10/9/2018	12:24:00	0.000	0.000	0.000
268	10/9/2018	12:25:00	0.000	0.000	0.000
269	10/9/2018	12:26:00	0.000	0.000	0.000
270	10/9/2018	12:27:00	0.000	0.000	0.000
271	10/9/2018	12:28:00	0.000	0.000	0.000
272	10/9/2018	12:29:00	0.000	0.000	0.000
273	10/9/2018	12:30:00	0.000	0.000	0.000
274	10/9/2018	12:31:00	0.000	0.000	0.000
275	10/9/2018	12:32:00	0.000	0.000	0.000
276	10/9/2018	12:33:00	0.000	0.000	0.000
277	10/9/2018	12:34:00	0.000	0.000	0.000
278	10/9/2018	12:35:00	0.000	0.000	0.000
279	10/9/2018	12:36:00	0.000	0.000	0.000
280	10/9/2018	12:37:00	0.000	0.000	0.000
281	10/9/2018	12:38:00	0.000	0.000	0.000
282	10/9/2018	12:39:00	0.000	0.000	0.000
283	10/9/2018	12:40:00	0.000	0.000	0.000
284	10/9/2018	12:41:00	0.000	0.000	0.000
285	10/9/2018	12:42:00	0.000	0.000	0.000
286	10/9/2018	12:43:00	0.000	0.000	0.000
287	10/9/2018	12:44:00	0.000	0.000	0.000
288	10/9/2018	12:45:00	0.000	0.000	0.000

289	10/9/2018	12:46:00	0.000	0.000	0.000
290	10/9/2018	12:47:00	0.000	0.000	0.000
291	10/9/2018	12:48:00	0.000	0.000	0.000
292	10/9/2018	12:49:00	0.000	0.000	0.000
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294	10/9/2018	12:51:00	0.000	0.000	0.000
295	10/9/2018	12:52:00	0.000	0.000	0.000
296	10/9/2018	12:53:00	0.000	0.000	0.000
297	10/9/2018	12:54:00	0.000	0.000	0.000
298	10/9/2018	12:55:00	0.000	0.000	0.000
299	10/9/2018	12:56:00	0.000	0.000	0.000
300	10/9/2018	12:57:00	0.000	0.000	0.000
301	10/9/2018	12:58:00	0.000	0.000	0.000
302	10/9/2018	12:59:00	0.000	0.000	0.000
303	10/9/2018	13:00:00	0.000	0.000	0.000
304	10/9/2018	13:01:00	0.000	0.000	0.000
305	10/9/2018	13:02:00	0.000	0.000	0.000
306	10/9/2018	13:03:00	0.000	0.000	0.000
307	10/9/2018	13:04:00	0.000	0.000	0.000
308	10/9/2018	13:05:00	0.000	0.000	0.000
309	10/9/2018	13:06:00	0.000	0.000	0.000
310	10/9/2018	13:07:00	0.000	0.000	0.000
311	10/9/2018	13:08:00	0.000	0.000	0.000
312	10/9/2018	13:09:00	0.000	0.000	0.000
313	10/9/2018	13:10:00	0.000	0.000	0.000
314	10/9/2018	13:11:00	0.000	0.000	0.000
315	10/9/2018	13:12:00	0.000	0.000	0.000
316	10/9/2018	13:13:00	0.000	0.000	0.000
317	10/9/2018	13:14:00	0.000	0.000	0.000
318	10/9/2018	13:15:00	0.000	0.000	0.000
319	10/9/2018	13:16:00	0.000	0.000	0.000
320	10/9/2018	13:17:00	0.000	0.000	0.000
321	10/9/2018	13:18:00	0.000	0.000	0.000
322	10/9/2018	13:19:00	0.000	0.000	0.000
323	10/9/2018	13:20:00	0.000	0.000	0.000
324	10/9/2018	13:21:00	0.000	0.000	0.000
325	10/9/2018	13:22:00	0.000	0.000	0.000
326	10/9/2018	13:23:00	0.000	0.000	0.000
327	10/9/2018	13:24:00	0.000	0.000	0.000
328	10/9/2018	13:25:00	0.000	0.000	0.000
329	10/9/2018	13:26:00	0.000	0.000	0.000
330	10/9/2018	13:27:00	0.000	0.000	0.000
331	10/9/2018	13:28:00	0.000	0.000	0.000
332	10/9/2018	13:29:00	0.000	0.000	0.000
333	10/9/2018	13:30:00	0.000	0.000	0.000
334	10/9/2018	13:31:00	0.000	0.000	0.000
335	10/9/2018	13:32:00	0.000	0.000	0.000

336	10/9/2018	13:33:00	0.000	0.000	0.000
337	10/9/2018	13:34:00	0.000	0.000	0.000
338	10/9/2018	13:35:00	0.000	0.000	0.000
339	10/9/2018	13:36:00	0.000	0.000	0.000
340	10/9/2018	13:37:00	0.000	0.000	0.000
341	10/9/2018	13:38:00	0.000	0.000	0.000
342	10/9/2018	13:39:00	0.000	0.000	0.000
343	10/9/2018	13:40:00	0.000	0.000	0.000
344	10/9/2018	13:41:00	0.000	0.000	0.000
345	10/9/2018	13:42:00	0.000	0.000	0.000
346	10/9/2018	13:43:00	0.000	0.000	0.000
347	10/9/2018	13:44:00	0.000	0.000	0.000
348	10/9/2018	13:45:00	0.000	0.000	0.000
349	10/9/2018	13:46:00	0.000	0.000	0.000
350	10/9/2018	13:47:00	0.000	0.000	0.000
351	10/9/2018	13:48:00	0.000	0.000	0.000
352	10/9/2018	13:49:00	0.000	0.000	0.000
353	10/9/2018	13:50:00	0.000	0.000	0.000
354	10/9/2018	13:51:00	0.000	0.000	0.000
355	10/9/2018	13:52:00	0.000	0.000	0.000
356	10/9/2018	13:53:00	0.000	0.000	0.000
357	10/9/2018	13:54:00	0.000	0.000	0.000
358	10/9/2018	13:55:00	0.000	0.000	0.000
359	10/9/2018	13:56:00	0.000	0.000	0.000
360	10/9/2018	13:57:00	0.000	0.000	0.000
361	10/9/2018	13:58:00	0.000	0.000	0.000
362	10/9/2018	13:59:00	0.000	0.000	0.000
363	10/9/2018	14:00:00	0.000	0.000	0.000
364	10/9/2018	14:01:00	0.000	0.000	0.000
365	10/9/2018	14:02:00	0.000	0.000	0.000
366	10/9/2018	14:03:00	0.000	0.000	0.000
367	10/9/2018	14:04:00	0.000	0.000	0.000
368	10/9/2018	14:05:00	0.000	0.000	0.000
369	10/9/2018	14:06:00	0.000	0.000	0.000
370	10/9/2018	14:07:00	0.000	0.000	0.000
371	10/9/2018	14:08:00	0.000	0.000	0.000
372	10/9/2018	14:09:00	0.000	0.000	0.000
373	10/9/2018	14:10:00	0.000	0.000	0.000
374	10/9/2018	14:11:00	0.000	0.000	0.000
375	10/9/2018	14:12:00	0.000	0.000	0.000
376	10/9/2018	14:13:00	0.000	0.000	0.000
377	10/9/2018	14:14:00	0.000	0.000	0.000
378	10/9/2018	14:15:00	0.000	0.000	0.000
379	10/9/2018	14:16:00	0.000	0.000	0.000
380	10/9/2018	14:17:00	0.000	0.000	0.000
381	10/9/2018	14:18:00	0.000	0.000	0.000
382	10/9/2018	14:19:00	0.000	0.000	0.000



383	10/9/2018	14:20:00	0.000	0.000	0.000
384	10/9/2018	14:21:00	0.000	0.000	0.000
385	10/9/2018	14:22:00	0.000	0.000	0.000
386	10/9/2018	14:23:00	0.000	0.000	0.000
387	10/9/2018	14:24:00	0.000	0.000	0.000
388	10/9/2018	14:25:00	0.000	0.000	0.000
389	10/9/2018	14:26:00	0.000	0.000	0.000
390	10/9/2018	14:27:00	0.000	0.000	0.000
391	10/9/2018	14:28:00	0.000	0.000	0.000
392	10/9/2018	14:29:00	0.000	0.000	0.000
393	10/9/2018	14:30:00	0.000	0.000	0.000
394	10/9/2018	14:31:00	0.000	0.000	0.000
395	10/9/2018	14:32:00	0.000	0.000	0.000
396	10/9/2018	14:33:00	0.000	0.000	0.000
397	10/9/2018	14:34:00	0.000	0.000	0.000
398	10/9/2018	14:35:00	0.000	0.000	0.000
399	10/9/2018	14:36:00	0.000	0.000	0.000
400	10/9/2018	14:37:00	0.000	0.000	0.000
401	10/9/2018	14:38:00	0.000	0.000	0.000
402	10/9/2018	14:39:00	0.000	0.000	0.000
403	10/9/2018	14:40:00	0.000	0.000	0.000
404	10/9/2018	14:41:00	0.000	0.000	0.000
405	10/9/2018	14:42:00	0.000	0.000	0.000
406	10/9/2018	14:43:00	0.000	0.000	0.000
407	10/9/2018	14:44:00	0.000	0.000	0.000
408	10/9/2018	14:45:00	0.000	0.000	0.000
409	10/9/2018	14:46:00	0.000	0.000	0.000
410	10/9/2018	14:47:00	0.000	0.000	0.000
411	10/9/2018	14:48:00	0.000	0.000	0.000
412	10/9/2018	14:49:00	0.000	0.000	0.000
413	10/9/2018	14:50:00	0.000	0.000	0.000
414	10/9/2018	14:51:00	0.000	0.000	0.000
415	10/9/2018	14:52:00	0.000	0.000	0.000
416	10/9/2018	14:53:00	0.000	0.000	0.000
417	10/9/2018	14:54:00	0.000	0.000	0.000
418	10/9/2018	14:55:00	0.000	0.000	0.000
419	10/9/2018	14:56:00	0.000	0.000	0.000
420	10/9/2018	14:57:00	0.000	0.000	0.000
421	10/9/2018	14:58:00	0.000	0.000	0.000
422	10/9/2018	14:59:00	0.000	0.000	0.000
423	10/9/2018	15:00:00	0.000	0.000	0.000
424	10/9/2018	15:01:00	0.000	0.000	0.000
425	10/9/2018	15:02:00	0.000	0.000	0.000
426	10/9/2018	15:03:00	0.000	0.000	0.000
427	10/9/2018	15:04:00	0.000	0.000	0.000
428	10/9/2018	15:05:00	0.000	0.000	0.000
429	10/9/2018	15:06:00	0.000	0.000	0.000

430	10/9/2018	15:07:00	0.000	0.000	0.000
431	10/9/2018	15:08:00	0.000	0.000	0.000
432	10/9/2018	15:09:00	0.000	0.000	0.000
433	10/9/2018	15:10:00	0.000	0.000	0.000
434	10/9/2018	15:11:00	0.000	0.000	0.000
435	10/9/2018	15:12:00	0.000	0.000	0.000
436	10/9/2018	15:13:00	0.000	0.000	0.000
437	10/9/2018	15:14:00	0.000	0.000	0.000
438	10/9/2018	15:15:00	0.000	0.000	0.000
439	10/9/2018	15:16:00	0.000	0.000	0.000
440	10/9/2018	15:17:00	0.000	0.000	0.000
441	10/9/2018	15:18:00	0.000	0.000	0.000
442	10/9/2018	15:19:00	0.000	0.000	0.000
443	10/9/2018	15:20:00	0.000	0.000	0.000
444	10/9/2018	15:21:00	0.000	0.000	0.000
445	10/9/2018	15:22:00	0.000	0.000	0.000
446	10/9/2018	15:23:00	0.000	0.000	0.000
447	10/9/2018	15:24:00	0.000	0.000	0.000
448	10/9/2018	15:25:00	0.000	0.000	0.000
449	10/9/2018	15:26:00	0.000	0.000	0.000
450	10/9/2018	15:27:00	0.000	0.000	0.000
451	10/9/2018	15:28:00	0.000	0.000	0.000
452	10/9/2018	15:29:00	0.000	0.000	0.000
453	10/9/2018	15:30:00	0.000	0.000	0.000
454	10/9/2018	15:31:00	0.000	0.000	0.000
455	10/9/2018	15:32:00	0.000	0.000	0.000
456	10/9/2018	15:33:00	0.000	0.000	0.000
457	10/9/2018	15:34:00	0.000	0.000	0.000
458	10/9/2018	15:35:00	0.000	0.000	0.000
459	10/9/2018	15:36:00	0.000	0.000	0.000
460	10/9/2018	15:37:00	0.000	0.000	0.000
461	10/9/2018	15:38:00	0.000	0.000	0.000
462	10/9/2018	15:39:00	0.000	0.000	0.000
463	10/9/2018	15:40:00	0.000	0.000	0.000
464	10/9/2018	15:41:00	0.000	0.000	0.000
465	10/9/2018	15:42:00	0.000	0.000	0.000
466	10/9/2018	15:43:00	0.000	0.000	0.000
467	10/9/2018	15:44:00	0.000	0.000	0.000
468	10/9/2018	15:45:00	0.000	0.000	0.000
469	10/9/2018	15:46:00	0.000	0.000	0.000
470	10/9/2018	15:47:00	0.000	0.000	0.000
471	10/9/2018	15:48:00	0.000	0.000	0.000
472	10/9/2018	15:49:00	0.000	0.000	0.000
473	10/9/2018	15:50:00	0.000	0.000	0.000
474	10/9/2018	15:51:00	0.000	0.000	0.000
475	10/9/2018	15:52:00	0.000	0.000	0.000
476	10/9/2018	15:53:00	0.000	0.000	0.000

477	10/9/2018	15:54:00	0.000	0.000	0.000
478	10/9/2018	15:55:00	0.000	0.000	0.000
479	10/9/2018	15:56:00	0.000	0.000	0.000
480	10/9/2018	15:57:00	0.000	0.000	0.000
481	10/9/2018	15:58:00	0.000	0.000	0.000
482	10/9/2018	15:59:00	0.000	0.000	0.000
483	10/9/2018	16:00:00	0.000	0.000	0.000
484	10/9/2018	16:01:00	0.000	0.000	0.000
485	10/9/2018	16:02:00	0.000	0.000	0.000
486	10/9/2018	16:03:00	0.000	0.000	0.000
487	10/9/2018	16:04:00	0.000	0.000	0.000
488	10/9/2018	16:05:00	0.000	0.000	0.000
489	10/9/2018	16:06:00	0.000	0.000	0.000
490	10/9/2018	16:07:00	0.000	0.000	0.000
491	10/9/2018	16:08:00	0.000	0.000	0.000
492	10/9/2018	16:09:00	0.000	0.000	0.000
493	10/9/2018	16:10:00	0.000	0.000	0.000
494	10/9/2018	16:11:00	0.000	0.000	0.000
495	10/9/2018	16:12:00	0.000	0.000	0.000
496	10/9/2018	16:13:00	0.000	0.000	0.000
497	10/9/2018	16:14:00	0.000	0.000	0.000
498	10/9/2018	16:15:00	0.000	0.000	0.000
499	10/9/2018	16:16:00	0.000	0.000	0.000
500	10/9/2018	16:17:00	0.000	0.000	0.000
501	10/9/2018	16:18:00	0.000	0.000	0.000
502	10/9/2018	16:19:00	0.000	0.000	0.000
503	10/9/2018	16:20:00	0.000	0.000	0.000
504	10/9/2018	16:21:00	0.000	0.000	0.000
505	10/9/2018	16:22:00	0.000	0.000	0.000
506	10/9/2018	16:23:00	0.000	0.000	0.000
507	10/9/2018	16:24:00	0.000	0.000	0.000
508	10/9/2018	16:25:00	0.000	0.000	0.000
509	10/9/2018	16:26:00	0.000	0.000	0.000
510	10/9/2018	16:27:00	0.000	0.000	0.000
511	10/9/2018	16:28:00	0.000	0.000	0.000
512	10/9/2018	16:29:00	0.000	0.000	0.000
513	10/9/2018	16:30:00	0.000	0.000	0.000
514	10/9/2018	16:31:00	0.000	0.000	0.000
515	10/9/2018	16:32:00	0.000	0.000	0.000
516	10/9/2018	16:33:00	0.000	0.000	0.000
517	10/9/2018	16:34:00	0.000	0.000	0.000
518	10/9/2018	16:35:00	0.000	0.000	0.000
519	10/9/2018	16:36:00	0.000	0.000	0.000
520	10/9/2018	16:37:00	0.000	0.000	0.000
521	10/9/2018	16:38:00	0.000	0.000	0.000
522	10/9/2018	16:39:00	0.000	0.000	0.000
523	10/9/2018	16:40:00	0.000	0.000	0.000

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18/10/10 08:31

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-918987  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
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Site ID         12345678  
User ID         12345678  
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Begin           2018/10/10 08:35:00  
End             2018/10/10 16:20:00  
Sample Period(s) 60  
Number of Records 463  
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Sensor          VOC(ppm)  
Span            100.000  
Span 2          N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas  Isobutylene  
Calibration Time 2018/10/10 07:54  
Peak            0.000  
Min             0.000  
Average         0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/10/2018 8:35:00	0.000	0.000	0.000
2	10/10/2018 8:36:00	0.000	0.000	0.000
3	10/10/2018 8:37:00	0.000	0.000	0.000
4	10/10/2018 8:38:00	0.000	0.000	0.000
5	10/10/2018 8:39:00	0.000	0.000	0.000
6	10/10/2018 8:40:00	0.000	0.000	0.000

7	10/10/2018	8:41:00	0.000	0.000	0.000
8	10/10/2018	8:42:00	0.000	0.000	0.000
9	10/10/2018	8:43:00	0.000	0.000	0.000
10	10/10/2018	8:44:00	0.000	0.000	0.000
11	10/10/2018	8:45:00	0.000	0.000	0.000
12	10/10/2018	8:46:00	0.000	0.000	0.000
13	10/10/2018	8:47:00	0.000	0.000	0.000
14	10/10/2018	8:48:00	0.000	0.000	0.000
15	10/10/2018	8:49:00	0.000	0.000	0.000
16	10/10/2018	8:50:00	0.000	0.000	0.000
17	10/10/2018	8:51:00	0.000	0.000	0.000
18	10/10/2018	8:52:00	0.000	0.000	0.000
19	10/10/2018	8:53:00	0.000	0.000	0.000
20	10/10/2018	8:54:00	0.000	0.000	0.000
21	10/10/2018	8:55:00	0.000	0.000	0.000
22	10/10/2018	8:56:00	0.000	0.000	0.000
23	10/10/2018	8:57:00	0.000	0.000	0.000
24	10/10/2018	8:58:00	0.000	0.000	0.000
25	10/10/2018	8:59:00	0.000	0.000	0.000
26	10/10/2018	9:00:00	0.000	0.000	0.000
27	10/10/2018	9:01:00	0.000	0.000	0.000
28	10/10/2018	9:02:00	0.000	0.000	0.000
29	10/10/2018	9:03:00	0.000	0.000	0.000
30	10/10/2018	9:04:00	0.000	0.000	0.000
31	10/10/2018	9:05:00	0.000	0.000	0.000
32	10/10/2018	9:06:00	0.000	0.000	0.000
33	10/10/2018	9:07:00	0.000	0.000	0.000
34	10/10/2018	9:08:00	0.000	0.000	0.000
35	10/10/2018	9:09:00	0.000	0.000	0.000
36	10/10/2018	9:10:00	0.000	0.000	0.000
37	10/10/2018	9:11:00	0.000	0.000	0.000
38	10/10/2018	9:12:00	0.000	0.000	0.000
39	10/10/2018	9:13:00	0.000	0.000	0.000
40	10/10/2018	9:14:00	0.000	0.000	0.000
41	10/10/2018	9:15:00	0.000	0.000	0.000
42	10/10/2018	9:16:00	0.000	0.000	0.000
43	10/10/2018	9:17:00	0.000	0.000	0.000
44	10/10/2018	9:18:00	0.000	0.000	0.000
45	10/10/2018	9:19:00	0.000	0.000	0.000
46	10/10/2018	9:20:00	0.000	0.000	0.000
47	10/10/2018	9:21:00	0.000	0.000	0.000
48	10/10/2018	9:22:00	0.000	0.000	0.000
49	10/10/2018	9:23:00	0.000	0.000	0.000
50	10/10/2018	9:24:00	0.000	0.000	0.000
51	10/10/2018	9:25:00	0.000	0.000	0.000
52	10/10/2018	9:26:00	0.000	0.000	0.000
53	10/10/2018	9:27:00	0.000	0.000	0.000

54	10/10/2018	9:28:00	0.000	0.000	0.000
55	10/10/2018	9:29:00	0.000	0.000	0.000
56	10/10/2018	9:30:00	0.000	0.000	0.000
57	10/10/2018	9:31:00	0.000	0.000	0.000
58	10/10/2018	9:32:00	0.000	0.000	0.000
59	10/10/2018	9:33:00	0.000	0.000	0.000
60	10/10/2018	9:34:00	0.000	0.000	0.000
61	10/10/2018	9:35:00	0.000	0.000	0.000
62	10/10/2018	9:36:00	0.000	0.000	0.000
63	10/10/2018	9:37:00	0.000	0.000	0.000
64	10/10/2018	9:38:00	0.000	0.000	0.000
65	10/10/2018	9:39:00	0.000	0.000	0.000
66	10/10/2018	9:40:00	0.000	0.000	0.000
67	10/10/2018	9:41:00	0.000	0.000	0.000
68	10/10/2018	9:42:00	0.000	0.000	0.000
69	10/10/2018	9:43:00	0.000	0.000	0.000
70	10/10/2018	9:44:00	0.000	0.000	0.000
71	10/10/2018	9:45:00	0.000	0.000	0.000
72	10/10/2018	9:46:00	0.000	0.000	0.000
73	10/10/2018	9:47:00	0.000	0.000	0.000
74	10/10/2018	9:48:00	0.000	0.000	0.000
75	10/10/2018	9:49:00	0.000	0.000	0.000
76	10/10/2018	9:50:00	0.000	0.000	0.000
77	10/10/2018	9:51:00	0.000	0.000	0.000
78	10/10/2018	9:52:00	0.000	0.000	0.000
79	10/10/2018	9:53:00	0.000	0.000	0.000
80	10/10/2018	9:54:00	0.000	0.000	0.000
81	10/10/2018	9:55:00	0.000	0.000	0.000
82	10/10/2018	9:56:00	0.000	0.000	0.000
83	10/10/2018	9:57:00	0.000	0.000	0.000
84	10/10/2018	9:58:00	0.000	0.000	0.000
85	10/10/2018	9:59:00	0.000	0.000	0.000
86	10/10/2018	10:00:00	0.000	0.000	0.000
87	10/10/2018	10:01:00	0.000	0.000	0.000
88	10/10/2018	10:02:00	0.000	0.000	0.000
89	10/10/2018	10:03:00	0.000	0.000	0.000
90	10/10/2018	10:04:00	0.000	0.000	0.000
91	10/10/2018	10:05:00	0.000	0.000	0.000
92	10/10/2018	10:06:00	0.000	0.000	0.000
93	10/10/2018	10:07:00	0.000	0.000	0.000
94	10/10/2018	10:08:00	0.000	0.000	0.000
95	10/10/2018	10:09:00	0.000	0.000	0.000
96	10/10/2018	10:10:00	0.000	0.000	0.000
97	10/10/2018	10:11:00	0.000	0.000	0.000
98	10/10/2018	10:12:00	0.000	0.000	0.000
99	10/10/2018	10:13:00	0.000	0.000	0.000
100	10/10/2018	10:14:00	0.000	0.000	0.000

101	10/10/2018	10:15:00	0.000	0.000	0.000
102	10/10/2018	10:16:00	0.000	0.000	0.000
103	10/10/2018	10:17:00	0.000	0.000	0.000
104	10/10/2018	10:18:00	0.000	0.000	0.000
105	10/10/2018	10:19:00	0.000	0.000	0.000
106	10/10/2018	10:20:00	0.000	0.000	0.000
107	10/10/2018	10:21:00	0.000	0.000	0.000
108	10/10/2018	10:22:00	0.000	0.000	0.000
109	10/10/2018	10:23:00	0.000	0.000	0.000
110	10/10/2018	10:24:00	0.000	0.000	0.000
111	10/10/2018	10:25:00	0.000	0.000	0.000
112	10/10/2018	10:26:00	0.000	0.000	0.000
113	10/10/2018	10:27:00	0.000	0.000	0.000
114	10/10/2018	10:28:00	0.000	0.000	0.000
115	10/10/2018	10:29:00	0.000	0.000	0.000
116	10/10/2018	10:30:00	0.000	0.000	0.000
117	10/10/2018	10:31:00	0.000	0.000	0.000
118	10/10/2018	10:32:00	0.000	0.000	0.000
119	10/10/2018	10:33:00	0.000	0.000	0.000
120	10/10/2018	10:34:00	0.000	0.000	0.000
121	10/10/2018	10:35:00	0.000	0.000	0.000
122	10/10/2018	10:36:00	0.000	0.000	0.000
123	10/10/2018	10:37:00	0.000	0.000	0.000
124	10/10/2018	10:38:00	0.000	0.000	0.000
125	10/10/2018	10:39:00	0.000	0.000	0.000
126	10/10/2018	10:40:00	0.000	0.000	0.000
127	10/10/2018	10:41:00	0.000	0.000	0.000
128	10/10/2018	10:42:00	0.000	0.000	0.000
129	10/10/2018	10:43:00	0.000	0.000	0.000
130	10/10/2018	10:44:00	0.000	0.000	0.000
131	10/10/2018	10:45:00	0.000	0.000	0.000
132	10/10/2018	10:46:00	0.000	0.000	0.000
133	10/10/2018	10:47:00	0.000	0.000	0.000
134	10/10/2018	10:48:00	0.000	0.000	0.000
135	10/10/2018	10:49:00	0.000	0.000	0.000
136	10/10/2018	10:50:00	0.000	0.000	0.000
137	10/10/2018	10:51:00	0.000	0.000	0.000
138	10/10/2018	10:52:00	0.000	0.000	0.000
139	10/10/2018	10:53:00	0.000	0.000	0.000
140	10/10/2018	10:54:00	0.000	0.000	0.000
141	10/10/2018	10:55:00	0.000	0.000	0.000
142	10/10/2018	10:56:00	0.000	0.000	0.000
143	10/10/2018	10:57:00	0.000	0.000	0.000
144	10/10/2018	10:58:00	0.000	0.000	0.000
145	10/10/2018	10:59:00	0.000	0.000	0.000
146	10/10/2018	11:00:00	0.000	0.000	0.000
147	10/10/2018	11:01:00	0.000	0.000	0.000

148	10/10/2018	11:02:00	0.000	0.000	0.000
149	10/10/2018	11:03:00	0.000	0.000	0.000
150	10/10/2018	11:04:00	0.000	0.000	0.000
151	10/10/2018	11:05:00	0.000	0.000	0.000
152	10/10/2018	11:06:00	0.000	0.000	0.000
153	10/10/2018	11:07:00	0.000	0.000	0.000
154	10/10/2018	11:08:00	0.000	0.000	0.000
155	10/10/2018	11:09:00	0.000	0.000	0.000
156	10/10/2018	11:10:00	0.000	0.000	0.000
157	10/10/2018	11:11:00	0.000	0.000	0.000
158	10/10/2018	11:12:00	0.000	0.000	0.000
159	10/10/2018	11:13:00	0.000	0.000	0.000
160	10/10/2018	11:14:00	0.000	0.000	0.000
161	10/10/2018	11:15:00	0.000	0.000	0.000
162	10/10/2018	11:16:00	0.000	0.000	0.000
163	10/10/2018	11:17:00	0.000	0.000	0.000
164	10/10/2018	11:18:00	0.000	0.000	0.000
165	10/10/2018	11:19:00	0.000	0.000	0.000
166	10/10/2018	11:20:00	0.000	0.000	0.000
167	10/10/2018	11:24:00	0.000	0.000	0.000
168	10/10/2018	11:25:00	0.000	0.000	0.000
169	10/10/2018	11:26:00	0.000	0.000	0.000
170	10/10/2018	11:27:00	0.000	0.000	0.000
171	10/10/2018	11:28:00	0.000	0.000	0.000
172	10/10/2018	11:29:00	0.000	0.000	0.000
173	10/10/2018	11:30:00	0.000	0.000	0.000
174	10/10/2018	11:31:00	0.000	0.000	0.000
175	10/10/2018	11:32:00	0.000	0.000	0.000
176	10/10/2018	11:33:00	0.000	0.000	0.000
177	10/10/2018	11:34:00	0.000	0.000	0.000
178	10/10/2018	11:35:00	0.000	0.000	0.000
179	10/10/2018	11:36:00	0.000	0.000	0.000
180	10/10/2018	11:37:00	0.000	0.000	0.000
181	10/10/2018	11:38:00	0.000	0.000	0.000
182	10/10/2018	11:39:00	0.000	0.000	0.000
183	10/10/2018	11:40:00	0.000	0.000	0.000
184	10/10/2018	11:41:00	0.000	0.000	0.000
185	10/10/2018	11:42:00	0.000	0.000	0.000
186	10/10/2018	11:43:00	0.000	0.000	0.000
187	10/10/2018	11:44:00	0.000	0.000	0.000
188	10/10/2018	11:45:00	0.000	0.000	0.000
189	10/10/2018	11:46:00	0.000	0.000	0.000
190	10/10/2018	11:47:00	0.000	0.000	0.000
191	10/10/2018	11:48:00	0.000	0.000	0.000
192	10/10/2018	11:49:00	0.000	0.000	0.000
193	10/10/2018	11:50:00	0.000	0.000	0.000
194	10/10/2018	11:51:00	0.000	0.000	0.000



195	10/10/2018	11:52:00	0.000	0.000	0.000
196	10/10/2018	11:53:00	0.000	0.000	0.000
197	10/10/2018	11:54:00	0.000	0.000	0.000
198	10/10/2018	11:55:00	0.000	0.000	0.000
199	10/10/2018	11:56:00	0.000	0.000	0.000
200	10/10/2018	11:57:00	0.000	0.000	0.000
201	10/10/2018	11:58:00	0.000	0.000	0.000
202	10/10/2018	11:59:00	0.000	0.000	0.000
203	10/10/2018	12:00:00	0.000	0.000	0.000
204	10/10/2018	12:01:00	0.000	0.000	0.000
205	10/10/2018	12:02:00	0.000	0.000	0.000
206	10/10/2018	12:03:00	0.000	0.000	0.000
207	10/10/2018	12:04:00	0.000	0.000	0.000
208	10/10/2018	12:05:00	0.000	0.000	0.000
209	10/10/2018	12:06:00	0.000	0.000	0.000
210	10/10/2018	12:07:00	0.000	0.000	0.000
211	10/10/2018	12:08:00	0.000	0.000	0.000
212	10/10/2018	12:09:00	0.000	0.000	0.000
213	10/10/2018	12:10:00	0.000	0.000	0.000
214	10/10/2018	12:11:00	0.000	0.000	0.000
215	10/10/2018	12:12:00	0.000	0.000	0.000
216	10/10/2018	12:13:00	0.000	0.000	0.000
217	10/10/2018	12:14:00	0.000	0.000	0.000
218	10/10/2018	12:15:00	0.000	0.000	0.000
219	10/10/2018	12:16:00	0.000	0.000	0.000
220	10/10/2018	12:17:00	0.000	0.000	0.000
221	10/10/2018	12:18:00	0.000	0.000	0.000
222	10/10/2018	12:19:00	0.000	0.000	0.000
223	10/10/2018	12:20:00	0.000	0.000	0.000
224	10/10/2018	12:21:00	0.000	0.000	0.000
225	10/10/2018	12:22:00	0.000	0.000	0.000
226	10/10/2018	12:23:00	0.000	0.000	0.000
227	10/10/2018	12:24:00	0.000	0.000	0.000
228	10/10/2018	12:25:00	0.000	0.000	0.000
229	10/10/2018	12:26:00	0.000	0.000	0.000
230	10/10/2018	12:27:00	0.000	0.000	0.000
231	10/10/2018	12:28:00	0.000	0.000	0.000
232	10/10/2018	12:29:00	0.000	0.000	0.000
233	10/10/2018	12:30:00	0.000	0.000	0.000
234	10/10/2018	12:31:00	0.000	0.000	0.000
235	10/10/2018	12:32:00	0.000	0.000	0.000
236	10/10/2018	12:33:00	0.000	0.000	0.000
237	10/10/2018	12:34:00	0.000	0.000	0.000
238	10/10/2018	12:35:00	0.000	0.000	0.000
239	10/10/2018	12:36:00	0.000	0.000	0.000
240	10/10/2018	12:37:00	0.000	0.000	0.000
241	10/10/2018	12:38:00	0.000	0.000	0.000

242	10/10/2018	12:39:00	0.000	0.000	0.000
243	10/10/2018	12:40:00	0.000	0.000	0.000
244	10/10/2018	12:41:00	0.000	0.000	0.000
245	10/10/2018	12:42:00	0.000	0.000	0.000
246	10/10/2018	12:43:00	0.000	0.000	0.000
247	10/10/2018	12:44:00	0.000	0.000	0.000
248	10/10/2018	12:45:00	0.000	0.000	0.000
249	10/10/2018	12:46:00	0.000	0.000	0.000
250	10/10/2018	12:47:00	0.000	0.000	0.000
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252	10/10/2018	12:49:00	0.000	0.000	0.000
253	10/10/2018	12:50:00	0.000	0.000	0.000
254	10/10/2018	12:51:00	0.000	0.000	0.000
255	10/10/2018	12:52:00	0.000	0.000	0.000
256	10/10/2018	12:53:00	0.000	0.000	0.000
257	10/10/2018	12:54:00	0.000	0.000	0.000
258	10/10/2018	12:55:00	0.000	0.000	0.000
259	10/10/2018	12:56:00	0.000	0.000	0.000
260	10/10/2018	12:57:00	0.000	0.000	0.000
261	10/10/2018	12:58:00	0.000	0.000	0.000
262	10/10/2018	12:59:00	0.000	0.000	0.000
263	10/10/2018	13:00:00	0.000	0.000	0.000
264	10/10/2018	13:01:00	0.000	0.000	0.000
265	10/10/2018	13:02:00	0.000	0.000	0.000
266	10/10/2018	13:03:00	0.000	0.000	0.000
267	10/10/2018	13:04:00	0.000	0.000	0.000
268	10/10/2018	13:05:00	0.000	0.000	0.000
269	10/10/2018	13:06:00	0.000	0.000	0.000
270	10/10/2018	13:07:00	0.000	0.000	0.000
271	10/10/2018	13:08:00	0.000	0.000	0.000
272	10/10/2018	13:09:00	0.000	0.000	0.000
273	10/10/2018	13:10:00	0.000	0.000	0.000
274	10/10/2018	13:11:00	0.000	0.000	0.000
275	10/10/2018	13:12:00	0.000	0.000	0.000
276	10/10/2018	13:13:00	0.000	0.000	0.000
277	10/10/2018	13:14:00	0.000	0.000	0.000
278	10/10/2018	13:15:00	0.000	0.000	0.000
279	10/10/2018	13:16:00	0.000	0.000	0.000
280	10/10/2018	13:17:00	0.000	0.000	0.000
281	10/10/2018	13:18:00	0.000	0.000	0.000
282	10/10/2018	13:19:00	0.000	0.000	0.000
283	10/10/2018	13:20:00	0.000	0.000	0.000
284	10/10/2018	13:21:00	0.000	0.000	0.000
285	10/10/2018	13:22:00	0.000	0.000	0.000
286	10/10/2018	13:23:00	0.000	0.000	0.000
287	10/10/2018	13:24:00	0.000	0.000	0.000
288	10/10/2018	13:25:00	0.000	0.000	0.000

289	10/10/2018	13:26:00	0.000	0.000	0.000
290	10/10/2018	13:27:00	0.000	0.000	0.000
291	10/10/2018	13:28:00	0.000	0.000	0.000
292	10/10/2018	13:29:00	0.000	0.000	0.000
293	10/10/2018	13:30:00	0.000	0.000	0.000
294	10/10/2018	13:31:00	0.000	0.000	0.000
295	10/10/2018	13:32:00	0.000	0.000	0.000
296	10/10/2018	13:33:00	0.000	0.000	0.000
297	10/10/2018	13:34:00	0.000	0.000	0.000
298	10/10/2018	13:35:00	0.000	0.000	0.000
299	10/10/2018	13:36:00	0.000	0.000	0.000
300	10/10/2018	13:37:00	0.000	0.000	0.000
301	10/10/2018	13:38:00	0.000	0.000	0.000
302	10/10/2018	13:39:00	0.000	0.000	0.000
303	10/10/2018	13:40:00	0.000	0.000	0.000
304	10/10/2018	13:41:00	0.000	0.000	0.000
305	10/10/2018	13:42:00	0.000	0.000	0.000
306	10/10/2018	13:43:00	0.000	0.000	0.000
307	10/10/2018	13:44:00	0.000	0.000	0.000
308	10/10/2018	13:45:00	0.000	0.000	0.000
309	10/10/2018	13:46:00	0.000	0.000	0.000
310	10/10/2018	13:47:00	0.000	0.000	0.000
311	10/10/2018	13:48:00	0.000	0.000	0.000
312	10/10/2018	13:49:00	0.000	0.000	0.000
313	10/10/2018	13:50:00	0.000	0.000	0.000
314	10/10/2018	13:51:00	0.000	0.000	0.000
315	10/10/2018	13:52:00	0.000	0.000	0.000
316	10/10/2018	13:53:00	0.000	0.000	0.000
317	10/10/2018	13:54:00	0.000	0.000	0.000
318	10/10/2018	13:55:00	0.000	0.000	0.000
319	10/10/2018	13:56:00	0.000	0.000	0.000
320	10/10/2018	13:57:00	0.000	0.000	0.000
321	10/10/2018	13:58:00	0.000	0.000	0.000
322	10/10/2018	13:59:00	0.000	0.000	0.000
323	10/10/2018	14:00:00	0.000	0.000	0.000
324	10/10/2018	14:01:00	0.000	0.000	0.000
325	10/10/2018	14:02:00	0.000	0.000	0.000
326	10/10/2018	14:03:00	0.000	0.000	0.000
327	10/10/2018	14:04:00	0.000	0.000	0.000
328	10/10/2018	14:05:00	0.000	0.000	0.000
329	10/10/2018	14:06:00	0.000	0.000	0.000
330	10/10/2018	14:07:00	0.000	0.000	0.000
331	10/10/2018	14:08:00	0.000	0.000	0.000
332	10/10/2018	14:09:00	0.000	0.000	0.000
333	10/10/2018	14:10:00	0.000	0.000	0.000
334	10/10/2018	14:11:00	0.000	0.000	0.000
335	10/10/2018	14:12:00	0.000	0.000	0.000

336	10/10/2018	14:13:00	0.000	0.000	0.000
337	10/10/2018	14:14:00	0.000	0.000	0.000
338	10/10/2018	14:15:00	0.000	0.000	0.000
339	10/10/2018	14:16:00	0.000	0.000	0.000
340	10/10/2018	14:17:00	0.000	0.000	0.000
341	10/10/2018	14:18:00	0.000	0.000	0.000
342	10/10/2018	14:19:00	0.000	0.000	0.000
343	10/10/2018	14:20:00	0.000	0.000	0.000
344	10/10/2018	14:21:00	0.000	0.000	0.000
345	10/10/2018	14:22:00	0.000	0.000	0.000
346	10/10/2018	14:23:00	0.000	0.000	0.000
347	10/10/2018	14:24:00	0.000	0.000	0.000
348	10/10/2018	14:25:00	0.000	0.000	0.000
349	10/10/2018	14:26:00	0.000	0.000	0.000
350	10/10/2018	14:27:00	0.000	0.000	0.000
351	10/10/2018	14:28:00	0.000	0.000	0.000
352	10/10/2018	14:29:00	0.000	0.000	0.000
353	10/10/2018	14:30:00	0.000	0.000	0.000
354	10/10/2018	14:31:00	0.000	0.000	0.000
355	10/10/2018	14:32:00	0.000	0.000	0.000
356	10/10/2018	14:33:00	0.000	0.000	0.000
357	10/10/2018	14:34:00	0.000	0.000	0.000
358	10/10/2018	14:35:00	0.000	0.000	0.000
359	10/10/2018	14:36:00	0.000	0.000	0.000
360	10/10/2018	14:37:00	0.000	0.000	0.000
361	10/10/2018	14:38:00	0.000	0.000	0.000
362	10/10/2018	14:39:00	0.000	0.000	0.000
363	10/10/2018	14:40:00	0.000	0.000	0.000
364	10/10/2018	14:41:00	0.000	0.000	0.000
365	10/10/2018	14:42:00	0.000	0.000	0.000
366	10/10/2018	14:43:00	0.000	0.000	0.000
367	10/10/2018	14:44:00	0.000	0.000	0.000
368	10/10/2018	14:45:00	0.000	0.000	0.000
369	10/10/2018	14:46:00	0.000	0.000	0.000
370	10/10/2018	14:47:00	0.000	0.000	0.000
371	10/10/2018	14:48:00	0.000	0.000	0.000
372	10/10/2018	14:49:00	0.000	0.000	0.000
373	10/10/2018	14:50:00	0.000	0.000	0.000
374	10/10/2018	14:51:00	0.000	0.000	0.000
375	10/10/2018	14:52:00	0.000	0.000	0.000
376	10/10/2018	14:53:00	0.000	0.000	0.000
377	10/10/2018	14:54:00	0.000	0.000	0.000
378	10/10/2018	14:55:00	0.000	0.000	0.000
379	10/10/2018	14:56:00	0.000	0.000	0.000
380	10/10/2018	14:57:00	0.000	0.000	0.000
381	10/10/2018	14:58:00	0.000	0.000	0.000
382	10/10/2018	14:59:00	0.000	0.000	0.000

383	10/10/2018	15:00:00	0.000	0.000	0.000
384	10/10/2018	15:01:00	0.000	0.000	0.000
385	10/10/2018	15:02:00	0.000	0.000	0.000
386	10/10/2018	15:03:00	0.000	0.000	0.000
387	10/10/2018	15:04:00	0.000	0.000	0.000
388	10/10/2018	15:05:00	0.000	0.000	0.000
389	10/10/2018	15:06:00	0.000	0.000	0.000
390	10/10/2018	15:07:00	0.000	0.000	0.000
391	10/10/2018	15:08:00	0.000	0.000	0.000
392	10/10/2018	15:09:00	0.000	0.000	0.000
393	10/10/2018	15:10:00	0.000	0.000	0.000
394	10/10/2018	15:11:00	0.000	0.000	0.000
395	10/10/2018	15:12:00	0.000	0.000	0.000
396	10/10/2018	15:13:00	0.000	0.000	0.000
397	10/10/2018	15:14:00	0.000	0.000	0.000
398	10/10/2018	15:15:00	0.000	0.000	0.000
399	10/10/2018	15:16:00	0.000	0.000	0.000
400	10/10/2018	15:17:00	0.000	0.000	0.000
401	10/10/2018	15:18:00	0.000	0.000	0.000
402	10/10/2018	15:19:00	0.000	0.000	0.000
403	10/10/2018	15:20:00	0.000	0.000	0.000
404	10/10/2018	15:21:00	0.000	0.000	0.000
405	10/10/2018	15:22:00	0.000	0.000	0.000
406	10/10/2018	15:23:00	0.000	0.000	0.000
407	10/10/2018	15:24:00	0.000	0.000	0.000
408	10/10/2018	15:25:00	0.000	0.000	0.000
409	10/10/2018	15:26:00	0.000	0.000	0.000
410	10/10/2018	15:27:00	0.000	0.000	0.000
411	10/10/2018	15:28:00	0.000	0.000	0.000
412	10/10/2018	15:29:00	0.000	0.000	0.000
413	10/10/2018	15:30:00	0.000	0.000	0.000
414	10/10/2018	15:31:00	0.000	0.000	0.000
415	10/10/2018	15:32:00	0.000	0.000	0.000
416	10/10/2018	15:33:00	0.000	0.000	0.000
417	10/10/2018	15:34:00	0.000	0.000	0.000
418	10/10/2018	15:35:00	0.000	0.000	0.000
419	10/10/2018	15:36:00	0.000	0.000	0.000
420	10/10/2018	15:37:00	0.000	0.000	0.000
421	10/10/2018	15:38:00	0.000	0.000	0.000
422	10/10/2018	15:39:00	0.000	0.000	0.000
423	10/10/2018	15:40:00	0.000	0.000	0.000
424	10/10/2018	15:41:00	0.000	0.000	0.000
425	10/10/2018	15:42:00	0.000	0.000	0.000
426	10/10/2018	15:43:00	0.000	0.000	0.000
427	10/10/2018	15:44:00	0.000	0.000	0.000
428	10/10/2018	15:45:00	0.000	0.000	0.000
429	10/10/2018	15:46:00	0.000	0.000	0.000

430	10/10/2018	15:47:00	0.000	0.000	0.000
431	10/10/2018	15:48:00	0.000	0.000	0.000
432	10/10/2018	15:49:00	0.000	0.000	0.000
433	10/10/2018	15:50:00	0.000	0.000	0.000
434	10/10/2018	15:51:00	0.000	0.000	0.000
435	10/10/2018	15:52:00	0.000	0.000	0.000
436	10/10/2018	15:53:00	0.000	0.000	0.000
437	10/10/2018	15:54:00	0.000	0.000	0.000
438	10/10/2018	15:55:00	0.000	0.000	0.000
439	10/10/2018	15:56:00	0.000	0.000	0.000
440	10/10/2018	15:57:00	0.000	0.000	0.000
441	10/10/2018	15:58:00	0.000	0.000	0.000
442	10/10/2018	15:59:00	0.000	0.000	0.000
443	10/10/2018	16:00:00	0.000	0.000	0.000
444	10/10/2018	16:01:00	0.000	0.000	0.000
445	10/10/2018	16:02:00	0.000	0.000	0.000
446	10/10/2018	16:03:00	0.000	0.000	0.000
447	10/10/2018	16:04:00	0.000	0.000	0.000
448	10/10/2018	16:05:00	0.000	0.000	0.000
449	10/10/2018	16:06:00	0.000	0.000	0.000
450	10/10/2018	16:07:00	0.000	0.000	0.000
451	10/10/2018	16:08:00	0.000	0.000	0.000
452	10/10/2018	16:09:00	0.000	0.000	0.000
453	10/10/2018	16:10:00	0.000	0.000	0.000
454	10/10/2018	16:11:00	0.000	0.000	0.000
455	10/10/2018	16:12:00	0.000	0.000	0.000
456	10/10/2018	16:13:00	0.000	0.000	0.000
457	10/10/2018	16:14:00	0.000	0.000	0.000
458	10/10/2018	16:15:00	0.000	0.000	0.000
459	10/10/2018	16:16:00	0.000	0.000	0.000
460	10/10/2018	16:17:00	0.000	0.000	0.000
461	10/10/2018	16:18:00	0.000	0.000	0.000
462	10/10/2018	16:19:00	0.000	0.000	0.000
463	10/10/2018	16:20:00	0.000	0.000	0.000

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18/10/11 07:38

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-918987  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
-----

Site ID         12345678  
User ID         12345678  
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Begin           2018/10/11 07:40:00  
End             2018/10/11 16:30:00  
Sample Period(s) 60  
Number of Records 528  
-----

Sensor          VOC(ppm)  
Span            100.000  
Span 2          N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/10/11 07:32  
Peak            0.000  
Min             0.000  
Average         0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/11/2018 7:40:00	0.000	0.000	0.000
2	10/11/2018 7:41:00	0.000	0.000	0.000
3	10/11/2018 7:42:00	0.000	0.000	0.000
4	10/11/2018 7:43:00	0.000	0.000	0.000
5	10/11/2018 7:44:00	0.000	0.000	0.000
6	10/11/2018 7:45:00	0.000	0.000	0.000

7	10/11/2018	7:46:00	0.000	0.000	0.000
8	10/11/2018	7:47:00	0.000	0.000	0.000
9	10/11/2018	7:48:00	0.000	0.000	0.000
10	10/11/2018	7:49:00	0.000	0.000	0.000
11	10/11/2018	7:50:00	0.000	0.000	0.000
12	10/11/2018	7:51:00	0.000	0.000	0.000
13	10/11/2018	7:52:00	0.000	0.000	0.000
14	10/11/2018	7:53:00	0.000	0.000	0.000
15	10/11/2018	7:54:00	0.000	0.000	0.000
16	10/11/2018	7:55:00	0.000	0.000	0.000
17	10/11/2018	7:56:00	0.000	0.000	0.000
18	10/11/2018	7:57:00	0.000	0.000	0.000
19	10/11/2018	7:58:00	0.000	0.000	0.000
20	10/11/2018	7:59:00	0.000	0.000	0.000
21	10/11/2018	8:00:00	0.000	0.000	0.000
22	10/11/2018	8:01:00	0.000	0.000	0.000
23	10/11/2018	8:02:00	0.000	0.000	0.000
24	10/11/2018	8:03:00	0.000	0.000	0.000
25	10/11/2018	8:04:00	0.000	0.000	0.000
26	10/11/2018	8:05:00	0.000	0.000	0.000
27	10/11/2018	8:06:00	0.000	0.000	0.000
28	10/11/2018	8:07:00	0.000	0.000	0.000
29	10/11/2018	8:08:00	0.000	0.000	0.000
30	10/11/2018	8:09:00	0.000	0.000	0.000
31	10/11/2018	8:10:00	0.000	0.000	0.000
32	10/11/2018	8:11:00	0.000	0.000	0.000
33	10/11/2018	8:12:00	0.000	0.000	0.000
34	10/11/2018	8:13:00	0.000	0.000	0.000
35	10/11/2018	8:14:00	0.000	0.000	0.000
36	10/11/2018	8:15:00	0.000	0.000	0.000
37	10/11/2018	8:16:00	0.000	0.000	0.000
38	10/11/2018	8:17:00	0.000	0.000	0.000
39	10/11/2018	8:18:00	0.000	0.000	0.000
40	10/11/2018	8:19:00	0.000	0.000	0.000
41	10/11/2018	8:20:00	0.000	0.000	0.000
42	10/11/2018	8:21:00	0.000	0.000	0.000
43	10/11/2018	8:22:00	0.000	0.000	0.000
44	10/11/2018	8:23:00	0.000	0.000	0.000
45	10/11/2018	8:24:00	0.000	0.000	0.000
46	10/11/2018	8:25:00	0.000	0.000	0.000
47	10/11/2018	8:26:00	0.000	0.000	0.000
48	10/11/2018	8:27:00	0.000	0.000	0.000
49	10/11/2018	8:28:00	0.000	0.000	0.000
50	10/11/2018	8:29:00	0.000	0.000	0.000
51	10/11/2018	8:30:00	0.000	0.000	0.000
52	10/11/2018	8:31:00	0.000	0.000	0.000
53	10/11/2018	8:32:00	0.000	0.000	0.000



54	10/11/2018	8:33:00	0.000	0.000	0.000
55	10/11/2018	8:34:00	0.000	0.000	0.000
56	10/11/2018	8:35:00	0.000	0.000	0.000
57	10/11/2018	8:36:00	0.000	0.000	0.000
58	10/11/2018	8:37:00	0.000	0.000	0.000
59	10/11/2018	8:38:00	0.000	0.000	0.000
60	10/11/2018	8:39:00	0.000	0.000	0.000
61	10/11/2018	8:40:00	0.000	0.000	0.000
62	10/11/2018	8:41:00	0.000	0.000	0.000
63	10/11/2018	8:42:00	0.000	0.000	0.000
64	10/11/2018	8:43:00	0.000	0.000	0.000
65	10/11/2018	8:44:00	0.000	0.000	0.000
66	10/11/2018	8:45:00	0.000	0.000	0.000
67	10/11/2018	8:46:00	0.000	0.000	0.000
68	10/11/2018	8:47:00	0.000	0.000	0.000
69	10/11/2018	8:48:00	0.000	0.000	0.000
70	10/11/2018	8:49:00	0.000	0.000	0.000
71	10/11/2018	8:50:00	0.000	0.000	0.000
72	10/11/2018	8:51:00	0.000	0.000	0.000
73	10/11/2018	8:52:00	0.000	0.000	0.000
74	10/11/2018	8:53:00	0.000	0.000	0.000
75	10/11/2018	8:54:00	0.000	0.000	0.000
76	10/11/2018	8:55:00	0.000	0.000	0.000
77	10/11/2018	8:56:00	0.000	0.000	0.000
78	10/11/2018	8:57:00	0.000	0.000	0.000
79	10/11/2018	8:58:00	0.000	0.000	0.000
80	10/11/2018	8:59:00	0.000	0.000	0.000
81	10/11/2018	9:00:00	0.000	0.000	0.000
82	10/11/2018	9:01:00	0.000	0.000	0.000
83	10/11/2018	9:02:00	0.000	0.000	0.000
84	10/11/2018	9:03:00	0.000	0.000	0.000
85	10/11/2018	9:04:00	0.000	0.000	0.000
86	10/11/2018	9:05:00	0.000	0.000	0.000
87	10/11/2018	9:06:00	0.000	0.000	0.000
88	10/11/2018	9:07:00	0.000	0.000	0.000
89	10/11/2018	9:08:00	0.000	0.000	0.000
90	10/11/2018	9:09:00	0.000	0.000	0.000
91	10/11/2018	9:10:00	0.000	0.000	0.000
92	10/11/2018	9:11:00	0.000	0.000	0.000
93	10/11/2018	9:12:00	0.000	0.000	0.000
94	10/11/2018	9:13:00	0.000	0.000	0.000
95	10/11/2018	9:14:00	0.000	0.000	0.000
96	10/11/2018	9:15:00	0.000	0.000	0.000
97	10/11/2018	9:16:00	0.000	0.000	0.000
98	10/11/2018	9:17:00	0.000	0.000	0.000
99	10/11/2018	9:18:00	0.000	0.000	0.000
100	10/11/2018	9:19:00	0.000	0.000	0.000

101	10/11/2018	9:20:00	0.000	0.000	0.000
102	10/11/2018	9:21:00	0.000	0.000	0.000
103	10/11/2018	9:22:00	0.000	0.000	0.000
104	10/11/2018	9:23:00	0.000	0.000	0.000
105	10/11/2018	9:24:00	0.000	0.000	0.000
106	10/11/2018	9:25:00	0.000	0.000	0.000
107	10/11/2018	9:26:00	0.000	0.000	0.000
108	10/11/2018	9:27:00	0.000	0.000	0.000
109	10/11/2018	9:28:00	0.000	0.000	0.000
110	10/11/2018	9:29:00	0.000	0.000	0.000
111	10/11/2018	9:30:00	0.000	0.000	0.000
112	10/11/2018	9:31:00	0.000	0.000	0.000
113	10/11/2018	9:32:00	0.000	0.000	0.000
114	10/11/2018	9:33:00	0.000	0.000	0.000
115	10/11/2018	9:34:00	0.000	0.000	0.000
116	10/11/2018	9:35:00	0.000	0.000	0.000
117	10/11/2018	9:36:00	0.000	0.000	0.000
118	10/11/2018	9:37:00	0.000	0.000	0.000
119	10/11/2018	9:38:00	0.000	0.000	0.000
120	10/11/2018	9:39:00	0.000	0.000	0.000
121	10/11/2018	9:40:00	0.000	0.000	0.000
122	10/11/2018	9:41:00	0.000	0.000	0.000
123	10/11/2018	9:42:00	0.000	0.000	0.000
124	10/11/2018	9:43:00	0.000	0.000	0.000
125	10/11/2018	9:44:00	0.000	0.000	0.000
126	10/11/2018	9:45:00	0.000	0.000	0.000
127	10/11/2018	9:46:00	0.000	0.000	0.000
128	10/11/2018	9:47:00	0.000	0.000	0.000
129	10/11/2018	9:48:00	0.000	0.000	0.000
130	10/11/2018	9:49:00	0.000	0.000	0.000
131	10/11/2018	9:50:00	0.000	0.000	0.000
132	10/11/2018	9:51:00	0.000	0.000	0.000
133	10/11/2018	9:52:00	0.000	0.000	0.000
134	10/11/2018	9:53:00	0.000	0.000	0.000
135	10/11/2018	9:54:00	0.000	0.000	0.000
136	10/11/2018	9:55:00	0.000	0.000	0.000
137	10/11/2018	9:56:00	0.000	0.000	0.000
138	10/11/2018	9:57:00	0.000	0.000	0.000
139	10/11/2018	9:58:00	0.000	0.000	0.000
140	10/11/2018	9:59:00	0.000	0.000	0.000
141	10/11/2018	10:00:00	0.000	0.000	0.000
142	10/11/2018	10:01:00	0.000	0.000	0.000
143	10/11/2018	10:02:00	0.000	0.000	0.000
144	10/11/2018	10:03:00	0.000	0.000	0.000
145	10/11/2018	10:04:00	0.000	0.000	0.000
146	10/11/2018	10:05:00	0.000	0.000	0.000
147	10/11/2018	10:06:00	0.000	0.000	0.000

148	10/11/2018	10:07:00	0.000	0.000	0.000
149	10/11/2018	10:08:00	0.000	0.000	0.000
150	10/11/2018	10:09:00	0.000	0.000	0.000
151	10/11/2018	10:10:00	0.000	0.000	0.000
152	10/11/2018	10:11:00	0.000	0.000	0.000
153	10/11/2018	10:12:00	0.000	0.000	0.000
154	10/11/2018	10:13:00	0.000	0.000	0.000
155	10/11/2018	10:14:00	0.000	0.000	0.000
156	10/11/2018	10:15:00	0.000	0.000	0.000
157	10/11/2018	10:16:00	0.000	0.000	0.000
158	10/11/2018	10:17:00	0.000	0.000	0.000
159	10/11/2018	10:18:00	0.000	0.000	0.000
160	10/11/2018	10:19:00	0.000	0.000	0.000
161	10/11/2018	10:20:00	0.000	0.000	0.000
162	10/11/2018	10:21:00	0.000	0.000	0.000
163	10/11/2018	10:22:00	0.000	0.000	0.000
164	10/11/2018	10:23:00	0.000	0.000	0.000
165	10/11/2018	10:24:00	0.000	0.000	0.000
166	10/11/2018	10:25:00	0.000	0.000	0.000
167	10/11/2018	10:26:00	0.000	0.000	0.000
168	10/11/2018	10:27:00	0.000	0.000	0.000
169	10/11/2018	10:28:00	0.000	0.000	0.000
170	10/11/2018	10:29:00	0.000	0.000	0.000
171	10/11/2018	10:30:00	0.000	0.000	0.000
172	10/11/2018	10:31:00	0.000	0.000	0.000
173	10/11/2018	10:32:00	0.000	0.000	0.000
174	10/11/2018	10:33:00	0.000	0.000	0.000
175	10/11/2018	10:34:00	0.000	0.000	0.000
176	10/11/2018	10:35:00	0.000	0.000	0.000
177	10/11/2018	10:36:00	0.000	0.000	0.000
178	10/11/2018	10:37:00	0.000	0.000	0.000
179	10/11/2018	10:38:00	0.000	0.000	0.000
180	10/11/2018	10:39:00	0.000	0.000	0.000
181	10/11/2018	10:40:00	0.000	0.000	0.000
182	10/11/2018	10:41:00	0.000	0.000	0.000
183	10/11/2018	10:42:00	0.000	0.000	0.000
184	10/11/2018	10:43:00	0.000	0.000	0.000
185	10/11/2018	10:44:00	0.000	0.000	0.000
186	10/11/2018	10:45:00	0.000	0.000	0.000
187	10/11/2018	10:46:00	0.000	0.000	0.000
188	10/11/2018	10:47:00	0.000	0.000	0.000
189	10/11/2018	10:48:00	0.000	0.000	0.000
190	10/11/2018	10:49:00	0.000	0.000	0.000
191	10/11/2018	10:50:00	0.000	0.000	0.000
192	10/11/2018	10:51:00	0.000	0.000	0.000
193	10/11/2018	10:52:00	0.000	0.000	0.000
194	10/11/2018	10:53:00	0.000	0.000	0.000

195	10/11/2018	10:54:00	0.000	0.000	0.000
196	10/11/2018	10:55:00	0.000	0.000	0.000
197	10/11/2018	10:56:00	0.000	0.000	0.000
198	10/11/2018	10:57:00	0.000	0.000	0.000
199	10/11/2018	10:58:00	0.000	0.000	0.000
200	10/11/2018	10:59:00	0.000	0.000	0.000
201	10/11/2018	11:00:00	0.000	0.000	0.000
202	10/11/2018	11:01:00	0.000	0.000	0.000
203	10/11/2018	11:02:00	0.000	0.000	0.000
204	10/11/2018	11:03:00	0.000	0.000	0.000
205	10/11/2018	11:04:00	0.000	0.000	0.000
206	10/11/2018	11:05:00	0.000	0.000	0.000
207	10/11/2018	11:06:00	0.000	0.000	0.000
208	10/11/2018	11:07:00	0.000	0.000	0.000
209	10/11/2018	11:08:00	0.000	0.000	0.000
210	10/11/2018	11:09:00	0.000	0.000	0.000
211	10/11/2018	11:10:00	0.000	0.000	0.000
212	10/11/2018	11:11:00	0.000	0.000	0.000
213	10/11/2018	11:12:00	0.000	0.000	0.000
214	10/11/2018	11:13:00	0.000	0.000	0.000
215	10/11/2018	11:14:00	0.000	0.000	0.000
216	10/11/2018	11:15:00	0.000	0.000	0.000
217	10/11/2018	11:16:00	0.000	0.000	0.000
218	10/11/2018	11:17:00	0.000	0.000	0.000
219	10/11/2018	11:18:00	0.000	0.000	0.000
220	10/11/2018	11:19:00	0.000	0.000	0.000
221	10/11/2018	11:20:00	0.000	0.000	0.000
222	10/11/2018	11:24:00	0.000	0.000	0.000
223	10/11/2018	11:25:00	0.000	0.000	0.000
224	10/11/2018	11:26:00	0.000	0.000	0.000
225	10/11/2018	11:27:00	0.000	0.000	0.000
226	10/11/2018	11:28:00	0.000	0.000	0.000
227	10/11/2018	11:29:00	0.000	0.000	0.000
228	10/11/2018	11:30:00	0.000	0.000	0.000
229	10/11/2018	11:31:00	0.000	0.000	0.000
230	10/11/2018	11:32:00	0.000	0.000	0.000
231	10/11/2018	11:33:00	0.000	0.000	0.000
232	10/11/2018	11:34:00	0.000	0.000	0.000
233	10/11/2018	11:35:00	0.000	0.000	0.000
234	10/11/2018	11:36:00	0.000	0.000	0.000
235	10/11/2018	11:37:00	0.000	0.000	0.000
236	10/11/2018	11:38:00	0.000	0.000	0.000
237	10/11/2018	11:39:00	0.000	0.000	0.000
238	10/11/2018	11:40:00	0.000	0.000	0.000
239	10/11/2018	11:41:00	0.000	0.000	0.000
240	10/11/2018	11:42:00	0.000	0.000	0.000
241	10/11/2018	11:43:00	0.000	0.000	0.000

242	10/11/2018	11:44:00	0.000	0.000	0.000
243	10/11/2018	11:45:00	0.000	0.000	0.000
244	10/11/2018	11:46:00	0.000	0.000	0.000
245	10/11/2018	11:47:00	0.000	0.000	0.000
246	10/11/2018	11:48:00	0.000	0.000	0.000
247	10/11/2018	11:49:00	0.000	0.000	0.000
248	10/11/2018	11:50:00	0.000	0.000	0.000
249	10/11/2018	11:51:00	0.000	0.000	0.000
250	10/11/2018	11:52:00	0.000	0.000	0.000
251	10/11/2018	11:53:00	0.000	0.000	0.000
252	10/11/2018	11:54:00	0.000	0.000	0.000
253	10/11/2018	11:55:00	0.000	0.000	0.000
254	10/11/2018	11:56:00	0.000	0.000	0.000
255	10/11/2018	11:57:00	0.000	0.000	0.000
256	10/11/2018	11:58:00	0.000	0.000	0.000
257	10/11/2018	11:59:00	0.000	0.000	0.000
258	10/11/2018	12:00:00	0.000	0.000	0.000
259	10/11/2018	12:01:00	0.000	0.000	0.000
260	10/11/2018	12:02:00	0.000	0.000	0.000
261	10/11/2018	12:03:00	0.000	0.000	0.000
262	10/11/2018	12:04:00	0.000	0.000	0.000
263	10/11/2018	12:05:00	0.000	0.000	0.000
264	10/11/2018	12:06:00	0.000	0.000	0.000
265	10/11/2018	12:07:00	0.000	0.000	0.000
266	10/11/2018	12:08:00	0.000	0.000	0.000
267	10/11/2018	12:09:00	0.000	0.000	0.000
268	10/11/2018	12:10:00	0.000	0.000	0.000
269	10/11/2018	12:11:00	0.000	0.000	0.000
270	10/11/2018	12:12:00	0.000	0.000	0.000
271	10/11/2018	12:13:00	0.000	0.000	0.000
272	10/11/2018	12:14:00	0.000	0.000	0.000
273	10/11/2018	12:15:00	0.000	0.000	0.000
274	10/11/2018	12:16:00	0.000	0.000	0.000
275	10/11/2018	12:17:00	0.000	0.000	0.000
276	10/11/2018	12:18:00	0.000	0.000	0.000
277	10/11/2018	12:19:00	0.000	0.000	0.000
278	10/11/2018	12:20:00	0.000	0.000	0.000
279	10/11/2018	12:21:00	0.000	0.000	0.000
280	10/11/2018	12:22:00	0.000	0.000	0.000
281	10/11/2018	12:23:00	0.000	0.000	0.000
282	10/11/2018	12:24:00	0.000	0.000	0.000
283	10/11/2018	12:25:00	0.000	0.000	0.000
284	10/11/2018	12:26:00	0.000	0.000	0.000
285	10/11/2018	12:27:00	0.000	0.000	0.000
286	10/11/2018	12:28:00	0.000	0.000	0.000
287	10/11/2018	12:29:00	0.000	0.000	0.000
288	10/11/2018	12:30:00	0.000	0.000	0.000

289	10/11/2018	12:31:00	0.000	0.000	0.000
290	10/11/2018	12:32:00	0.000	0.000	0.000
291	10/11/2018	12:33:00	0.000	0.000	0.000
292	10/11/2018	12:34:00	0.000	0.000	0.000
293	10/11/2018	12:35:00	0.000	0.000	0.000
294	10/11/2018	12:36:00	0.000	0.000	0.000
295	10/11/2018	12:37:00	0.000	0.000	0.000
296	10/11/2018	12:38:00	0.000	0.000	0.000
297	10/11/2018	12:39:00	0.000	0.000	0.000
298	10/11/2018	12:40:00	0.000	0.000	0.000
299	10/11/2018	12:41:00	0.000	0.000	0.000
300	10/11/2018	12:42:00	0.000	0.000	0.000
301	10/11/2018	12:43:00	0.000	0.000	0.000
302	10/11/2018	12:44:00	0.000	0.000	0.000
303	10/11/2018	12:45:00	0.000	0.000	0.000
304	10/11/2018	12:46:00	0.000	0.000	0.000
305	10/11/2018	12:47:00	0.000	0.000	0.000
306	10/11/2018	12:48:00	0.000	0.000	0.000
307	10/11/2018	12:49:00	0.000	0.000	0.000
308	10/11/2018	12:50:00	0.000	0.000	0.000
309	10/11/2018	12:51:00	0.000	0.000	0.000
310	10/11/2018	12:52:00	0.000	0.000	0.000
311	10/11/2018	12:53:00	0.000	0.000	0.000
312	10/11/2018	12:54:00	0.000	0.000	0.000
313	10/11/2018	12:55:00	0.000	0.000	0.000
314	10/11/2018	12:56:00	0.000	0.000	0.000
315	10/11/2018	12:57:00	0.000	0.000	0.000
316	10/11/2018	12:58:00	0.000	0.000	0.000
317	10/11/2018	12:59:00	0.000	0.000	0.000
318	10/11/2018	13:00:00	0.000	0.000	0.000
319	10/11/2018	13:01:00	0.000	0.000	0.000
320	10/11/2018	13:02:00	0.000	0.000	0.000
321	10/11/2018	13:03:00	0.000	0.000	0.000
322	10/11/2018	13:04:00	0.000	0.000	0.000
323	10/11/2018	13:05:00	0.000	0.000	0.000
324	10/11/2018	13:06:00	0.000	0.000	0.000
325	10/11/2018	13:07:00	0.000	0.000	0.000
326	10/11/2018	13:08:00	0.000	0.000	0.000
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328	10/11/2018	13:10:00	0.000	0.000	0.000
329	10/11/2018	13:11:00	0.000	0.000	0.000
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331	10/11/2018	13:13:00	0.000	0.000	0.000
332	10/11/2018	13:14:00	0.000	0.000	0.000
333	10/11/2018	13:15:00	0.000	0.000	0.000
334	10/11/2018	13:16:00	0.000	0.000	0.000
335	10/11/2018	13:17:00	0.000	0.000	0.000

336	10/11/2018	13:18:00	0.000	0.000	0.000
337	10/11/2018	13:19:00	0.000	0.000	0.000
338	10/11/2018	13:20:00	0.000	0.000	0.000
339	10/11/2018	13:21:00	0.000	0.000	0.000
340	10/11/2018	13:22:00	0.000	0.000	0.000
341	10/11/2018	13:23:00	0.000	0.000	0.000
342	10/11/2018	13:24:00	0.000	0.000	0.000
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347	10/11/2018	13:29:00	0.000	0.000	0.000
348	10/11/2018	13:30:00	0.000	0.000	0.000
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353	10/11/2018	13:35:00	0.000	0.000	0.000
354	10/11/2018	13:36:00	0.000	0.000	0.000
355	10/11/2018	13:37:00	0.000	0.000	0.000
356	10/11/2018	13:38:00	0.000	0.000	0.000
357	10/11/2018	13:39:00	0.000	0.000	0.000
358	10/11/2018	13:40:00	0.000	0.000	0.000
359	10/11/2018	13:41:00	0.000	0.000	0.000
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362	10/11/2018	13:44:00	0.000	0.000	0.000
363	10/11/2018	13:45:00	0.000	0.000	0.000
364	10/11/2018	13:46:00	0.000	0.000	0.000
365	10/11/2018	13:47:00	0.000	0.000	0.000
366	10/11/2018	13:48:00	0.000	0.000	0.000
367	10/11/2018	13:49:00	0.000	0.000	0.000
368	10/11/2018	13:50:00	0.000	0.000	0.000
369	10/11/2018	13:51:00	0.000	0.000	0.000
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371	10/11/2018	13:53:00	0.000	0.000	0.000
372	10/11/2018	13:54:00	0.000	0.000	0.000
373	10/11/2018	13:55:00	0.000	0.000	0.000
374	10/11/2018	13:56:00	0.000	0.000	0.000
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376	10/11/2018	13:58:00	0.000	0.000	0.000
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382	10/11/2018	14:04:00	0.000	0.000	0.000

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389	10/11/2018	14:11:00	0.000	0.000	0.000
390	10/11/2018	14:12:00	0.000	0.000	0.000
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393	10/11/2018	14:15:00	0.000	0.000	0.000
394	10/11/2018	14:16:00	0.000	0.000	0.000
395	10/11/2018	14:17:00	0.000	0.000	0.000
396	10/11/2018	14:18:00	0.000	0.000	0.000
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402	10/11/2018	14:24:00	0.000	0.000	0.000
403	10/11/2018	14:25:00	0.000	0.000	0.000
404	10/11/2018	14:26:00	0.000	0.000	0.000
405	10/11/2018	14:27:00	0.000	0.000	0.000
406	10/11/2018	14:28:00	0.000	0.000	0.000
407	10/11/2018	14:29:00	0.000	0.000	0.000
408	10/11/2018	14:30:00	0.000	0.000	0.000
409	10/11/2018	14:31:00	0.000	0.000	0.000
410	10/11/2018	14:32:00	0.000	0.000	0.000
411	10/11/2018	14:33:00	0.000	0.000	0.000
412	10/11/2018	14:34:00	0.000	0.000	0.000
413	10/11/2018	14:35:00	0.000	0.000	0.000
414	10/11/2018	14:36:00	0.000	0.000	0.000
415	10/11/2018	14:37:00	0.000	0.000	0.000
416	10/11/2018	14:38:00	0.000	0.000	0.000
417	10/11/2018	14:39:00	0.000	0.000	0.000
418	10/11/2018	14:40:00	0.000	0.000	0.000
419	10/11/2018	14:41:00	0.000	0.000	0.000
420	10/11/2018	14:42:00	0.000	0.000	0.000
421	10/11/2018	14:43:00	0.000	0.000	0.000
422	10/11/2018	14:44:00	0.000	0.000	0.000
423	10/11/2018	14:45:00	0.000	0.000	0.000
424	10/11/2018	14:46:00	0.000	0.000	0.000
425	10/11/2018	14:47:00	0.000	0.000	0.000
426	10/11/2018	14:48:00	0.000	0.000	0.000
427	10/11/2018	14:49:00	0.000	0.000	0.000
428	10/11/2018	14:50:00	0.000	0.000	0.000
429	10/11/2018	14:51:00	0.000	0.000	0.000



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431	10/11/2018	14:53:00	0.000	0.000	0.000
432	10/11/2018	14:54:00	0.000	0.000	0.000
433	10/11/2018	14:55:00	0.000	0.000	0.000
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435	10/11/2018	14:57:00	0.000	0.000	0.000
436	10/11/2018	14:58:00	0.000	0.000	0.000
437	10/11/2018	14:59:00	0.000	0.000	0.000
438	10/11/2018	15:00:00	0.000	0.000	0.000
439	10/11/2018	15:01:00	0.000	0.000	0.000
440	10/11/2018	15:02:00	0.000	0.000	0.000
441	10/11/2018	15:03:00	0.000	0.000	0.000
442	10/11/2018	15:04:00	0.000	0.000	0.000
443	10/11/2018	15:05:00	0.000	0.000	0.000
444	10/11/2018	15:06:00	0.000	0.000	0.000
445	10/11/2018	15:07:00	0.000	0.000	0.000
446	10/11/2018	15:08:00	0.000	0.000	0.000
447	10/11/2018	15:09:00	0.000	0.000	0.000
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449	10/11/2018	15:11:00	0.000	0.000	0.000
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452	10/11/2018	15:14:00	0.000	0.000	0.000
453	10/11/2018	15:15:00	0.000	0.000	0.000
454	10/11/2018	15:16:00	0.000	0.000	0.000
455	10/11/2018	15:17:00	0.000	0.000	0.000
456	10/11/2018	15:18:00	0.000	0.000	0.000
457	10/11/2018	15:19:00	0.000	0.000	0.000
458	10/11/2018	15:20:00	0.000	0.000	0.000
459	10/11/2018	15:21:00	0.000	0.000	0.000
460	10/11/2018	15:22:00	0.000	0.000	0.000
461	10/11/2018	15:23:00	0.000	0.000	0.000
462	10/11/2018	15:24:00	0.000	0.000	0.000
463	10/11/2018	15:25:00	0.000	0.000	0.000
464	10/11/2018	15:26:00	0.000	0.000	0.000
465	10/11/2018	15:27:00	0.000	0.000	0.000
466	10/11/2018	15:28:00	0.000	0.000	0.000
467	10/11/2018	15:29:00	0.000	0.000	0.000
468	10/11/2018	15:30:00	0.000	0.000	0.000
469	10/11/2018	15:31:00	0.000	0.000	0.000
470	10/11/2018	15:32:00	0.000	0.000	0.000
471	10/11/2018	15:33:00	0.000	0.000	0.000
472	10/11/2018	15:34:00	0.000	0.000	0.000
473	10/11/2018	15:35:00	0.000	0.000	0.000
474	10/11/2018	15:36:00	0.000	0.000	0.000
475	10/11/2018	15:37:00	0.000	0.000	0.000
476	10/11/2018	15:38:00	0.000	0.000	0.000

477	10/11/2018	15:39:00	0.000	0.000	0.000
478	10/11/2018	15:40:00	0.000	0.000	0.000
479	10/11/2018	15:41:00	0.000	0.000	0.000
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483	10/11/2018	15:45:00	0.000	0.000	0.000
484	10/11/2018	15:46:00	0.000	0.000	0.000
485	10/11/2018	15:47:00	0.000	0.000	0.000
486	10/11/2018	15:48:00	0.000	0.000	0.000
487	10/11/2018	15:49:00	0.000	0.000	0.000
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489	10/11/2018	15:51:00	0.000	0.000	0.000
490	10/11/2018	15:52:00	0.000	0.000	0.000
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492	10/11/2018	15:54:00	0.000	0.000	0.000
493	10/11/2018	15:55:00	0.000	0.000	0.000
494	10/11/2018	15:56:00	0.000	0.000	0.000
495	10/11/2018	15:57:00	0.000	0.000	0.000
496	10/11/2018	15:58:00	0.000	0.000	0.000
497	10/11/2018	15:59:00	0.000	0.000	0.000
498	10/11/2018	16:00:00	0.000	0.000	0.000
499	10/11/2018	16:01:00	0.000	0.000	0.000
500	10/11/2018	16:02:00	0.000	0.000	0.000
501	10/11/2018	16:03:00	0.000	0.000	0.000
502	10/11/2018	16:04:00	0.000	0.000	0.000
503	10/11/2018	16:05:00	0.000	0.000	0.000
504	10/11/2018	16:06:00	0.000	0.000	0.000
505	10/11/2018	16:07:00	0.000	0.000	0.000
506	10/11/2018	16:08:00	0.000	0.000	0.000
507	10/11/2018	16:09:00	0.000	0.000	0.000
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509	10/11/2018	16:11:00	0.000	0.000	0.000
510	10/11/2018	16:12:00	0.000	0.000	0.000
511	10/11/2018	16:13:00	0.000	0.000	0.000
512	10/11/2018	16:14:00	0.000	0.000	0.000
513	10/11/2018	16:15:00	0.000	0.000	0.000
514	10/11/2018	16:16:00	0.000	0.000	0.000
515	10/11/2018	16:17:00	0.000	0.000	0.000
516	10/11/2018	16:18:00	0.000	0.000	0.000
517	10/11/2018	16:19:00	0.000	0.000	0.000
518	10/11/2018	16:20:00	0.000	0.000	0.000
519	10/11/2018	16:21:00	0.000	0.000	0.000
520	10/11/2018	16:22:00	0.000	0.000	0.000
521	10/11/2018	16:23:00	0.000	0.000	0.000
522	10/11/2018	16:24:00	0.000	0.000	0.000
523	10/11/2018	16:25:00	0.000	0.000	0.000

524	10/11/2018	16:26:00	0.000	0.000	0.000
525	10/11/2018	16:27:00	0.000	0.000	0.000
526	10/11/2018	16:28:00	0.000	0.000	0.000
527	10/11/2018	16:29:00	0.000	0.000	0.000
528	10/11/2018	16:30:00	0.000	0.000	0.000

=====  
18/10/12 07:37

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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-918987  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type    Avg; Max; Real  
Datalog Mode    Continuous  
Datalog Type    Auto  
Diagnostic Mode  No  
Stop Reason     Power Down  
-----

Site ID         12345678  
User ID         12345678  
-----

Begin           2018/10/12 07:37:00  
End             2018/10/12 14:20:00  
Sample Period(s)     60  
Number of Records    404  
-----

Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas  Isobutylene  
Calibration Time  2018/10/12 07:31  
Peak           0.000  
Min            0.000  
Average        0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	10/12/2018 7:37:00	0.000	0.000	0.000
2	10/12/2018 7:38:00	0.000	0.000	0.000
3	10/12/2018 7:39:00	0.000	0.000	0.000
4	10/12/2018 7:40:00	0.000	0.000	0.000
5	10/12/2018 7:41:00	0.000	0.000	0.000
6	10/12/2018 7:42:00	0.000	0.000	0.000

7	10/12/2018	7:43:00	0.000	0.000	0.000
8	10/12/2018	7:44:00	0.000	0.000	0.000
9	10/12/2018	7:45:00	0.000	0.000	0.000
10	10/12/2018	7:46:00	0.000	0.000	0.000
11	10/12/2018	7:47:00	0.000	0.000	0.000
12	10/12/2018	7:48:00	0.000	0.000	0.000
13	10/12/2018	7:49:00	0.000	0.000	0.000
14	10/12/2018	7:50:00	0.000	0.000	0.000
15	10/12/2018	7:51:00	0.000	0.000	0.000
16	10/12/2018	7:52:00	0.000	0.000	0.000
17	10/12/2018	7:53:00	0.000	0.000	0.000
18	10/12/2018	7:54:00	0.000	0.000	0.000
19	10/12/2018	7:55:00	0.000	0.000	0.000
20	10/12/2018	7:56:00	0.000	0.000	0.000
21	10/12/2018	7:57:00	0.000	0.000	0.000
22	10/12/2018	7:58:00	0.000	0.000	0.000
23	10/12/2018	7:59:00	0.000	0.000	0.000
24	10/12/2018	8:00:00	0.000	0.000	0.000
25	10/12/2018	8:01:00	0.000	0.000	0.000
26	10/12/2018	8:02:00	0.000	0.000	0.000
27	10/12/2018	8:03:00	0.000	0.000	0.000
28	10/12/2018	8:04:00	0.000	0.000	0.000
29	10/12/2018	8:05:00	0.000	0.000	0.000
30	10/12/2018	8:06:00	0.000	0.000	0.000
31	10/12/2018	8:07:00	0.000	0.000	0.000
32	10/12/2018	8:08:00	0.000	0.000	0.000
33	10/12/2018	8:09:00	0.000	0.000	0.000
34	10/12/2018	8:10:00	0.000	0.000	0.000
35	10/12/2018	8:11:00	0.000	0.000	0.000
36	10/12/2018	8:12:00	0.000	0.000	0.000
37	10/12/2018	8:13:00	0.000	0.000	0.000
38	10/12/2018	8:14:00	0.000	0.000	0.000
39	10/12/2018	8:15:00	0.000	0.000	0.000
40	10/12/2018	8:16:00	0.000	0.000	0.000
41	10/12/2018	8:17:00	0.000	0.000	0.000
42	10/12/2018	8:18:00	0.000	0.000	0.000
43	10/12/2018	8:19:00	0.000	0.000	0.000
44	10/12/2018	8:20:00	0.000	0.000	0.000
45	10/12/2018	8:21:00	0.000	0.000	0.000
46	10/12/2018	8:22:00	0.000	0.000	0.000
47	10/12/2018	8:23:00	0.000	0.000	0.000
48	10/12/2018	8:24:00	0.000	0.000	0.000
49	10/12/2018	8:25:00	0.000	0.000	0.000
50	10/12/2018	8:26:00	0.000	0.000	0.000
51	10/12/2018	8:27:00	0.000	0.000	0.000
52	10/12/2018	8:28:00	0.000	0.000	0.000
53	10/12/2018	8:29:00	0.000	0.000	0.000

54	10/12/2018	8:30:00	0.000	0.000	0.000
55	10/12/2018	8:31:00	0.000	0.000	0.000
56	10/12/2018	8:32:00	0.000	0.000	0.000
57	10/12/2018	8:33:00	0.000	0.000	0.000
58	10/12/2018	8:34:00	0.000	0.000	0.000
59	10/12/2018	8:35:00	0.000	0.000	0.000
60	10/12/2018	8:36:00	0.000	0.000	0.000
61	10/12/2018	8:37:00	0.000	0.000	0.000
62	10/12/2018	8:38:00	0.000	0.000	0.000
63	10/12/2018	8:39:00	0.000	0.000	0.000
64	10/12/2018	8:40:00	0.000	0.000	0.000
65	10/12/2018	8:41:00	0.000	0.000	0.000
66	10/12/2018	8:42:00	0.000	0.000	0.000
67	10/12/2018	8:43:00	0.000	0.000	0.000
68	10/12/2018	8:44:00	0.000	0.000	0.000
69	10/12/2018	8:45:00	0.000	0.000	0.000
70	10/12/2018	8:46:00	0.000	0.000	0.000
71	10/12/2018	8:47:00	0.000	0.000	0.000
72	10/12/2018	8:48:00	0.000	0.000	0.000
73	10/12/2018	8:49:00	0.000	0.000	0.000
74	10/12/2018	8:50:00	0.000	0.000	0.000
75	10/12/2018	8:51:00	0.000	0.000	0.000
76	10/12/2018	8:52:00	0.000	0.000	0.000
77	10/12/2018	8:53:00	0.000	0.000	0.000
78	10/12/2018	8:54:00	0.000	0.000	0.000
79	10/12/2018	8:55:00	0.000	0.000	0.000
80	10/12/2018	8:56:00	0.000	0.000	0.000
81	10/12/2018	8:57:00	0.000	0.000	0.000
82	10/12/2018	8:58:00	0.000	0.000	0.000
83	10/12/2018	8:59:00	0.000	0.000	0.000
84	10/12/2018	9:00:00	0.000	0.000	0.000
85	10/12/2018	9:01:00	0.000	0.000	0.000
86	10/12/2018	9:02:00	0.000	0.000	0.000
87	10/12/2018	9:03:00	0.000	0.000	0.000
88	10/12/2018	9:04:00	0.000	0.000	0.000
89	10/12/2018	9:05:00	0.000	0.000	0.000
90	10/12/2018	9:06:00	0.000	0.000	0.000
91	10/12/2018	9:07:00	0.000	0.000	0.000
92	10/12/2018	9:08:00	0.000	0.000	0.000
93	10/12/2018	9:09:00	0.000	0.000	0.000
94	10/12/2018	9:10:00	0.000	0.000	0.000
95	10/12/2018	9:11:00	0.000	0.000	0.000
96	10/12/2018	9:12:00	0.000	0.000	0.000
97	10/12/2018	9:13:00	0.000	0.000	0.000
98	10/12/2018	9:14:00	0.000	0.000	0.000
99	10/12/2018	9:15:00	0.000	0.000	0.000
100	10/12/2018	9:16:00	0.000	0.000	0.000

101	10/12/2018	9:17:00	0.000	0.000	0.000
102	10/12/2018	9:18:00	0.000	0.000	0.000
103	10/12/2018	9:19:00	0.000	0.000	0.000
104	10/12/2018	9:20:00	0.000	0.000	0.000
105	10/12/2018	9:21:00	0.000	0.000	0.000
106	10/12/2018	9:22:00	0.000	0.000	0.000
107	10/12/2018	9:23:00	0.000	0.000	0.000
108	10/12/2018	9:24:00	0.000	0.000	0.000
109	10/12/2018	9:25:00	0.000	0.000	0.000
110	10/12/2018	9:26:00	0.000	0.000	0.000
111	10/12/2018	9:27:00	0.000	0.000	0.000
112	10/12/2018	9:28:00	0.000	0.000	0.000
113	10/12/2018	9:29:00	0.000	0.000	0.000
114	10/12/2018	9:30:00	0.000	0.000	0.000
115	10/12/2018	9:31:00	0.000	0.000	0.000
116	10/12/2018	9:32:00	0.000	0.000	0.000
117	10/12/2018	9:33:00	0.000	0.000	0.000
118	10/12/2018	9:34:00	0.000	0.000	0.000
119	10/12/2018	9:35:00	0.000	0.000	0.000
120	10/12/2018	9:36:00	0.000	0.000	0.000
121	10/12/2018	9:37:00	0.000	0.000	0.000
122	10/12/2018	9:38:00	0.000	0.000	0.000
123	10/12/2018	9:39:00	0.000	0.000	0.000
124	10/12/2018	9:40:00	0.000	0.000	0.000
125	10/12/2018	9:41:00	0.000	0.000	0.000
126	10/12/2018	9:42:00	0.000	0.000	0.000
127	10/12/2018	9:43:00	0.000	0.000	0.000
128	10/12/2018	9:44:00	0.000	0.000	0.000
129	10/12/2018	9:45:00	0.000	0.000	0.000
130	10/12/2018	9:46:00	0.000	0.000	0.000
131	10/12/2018	9:47:00	0.000	0.000	0.000
132	10/12/2018	9:48:00	0.000	0.000	0.000
133	10/12/2018	9:49:00	0.000	0.000	0.000
134	10/12/2018	9:50:00	0.000	0.000	0.000
135	10/12/2018	9:51:00	0.000	0.000	0.000
136	10/12/2018	9:52:00	0.000	0.000	0.000
137	10/12/2018	9:53:00	0.000	0.000	0.000
138	10/12/2018	9:54:00	0.000	0.000	0.000
139	10/12/2018	9:55:00	0.000	0.000	0.000
140	10/12/2018	9:56:00	0.000	0.000	0.000
141	10/12/2018	9:57:00	0.000	0.000	0.000
142	10/12/2018	9:58:00	0.000	0.000	0.000
143	10/12/2018	9:59:00	0.000	0.000	0.000
144	10/12/2018	10:00:00	0.000	0.000	0.000
145	10/12/2018	10:01:00	0.000	0.000	0.000
146	10/12/2018	10:02:00	0.000	0.000	0.000
147	10/12/2018	10:03:00	0.000	0.000	0.000

148	10/12/2018	10:04:00	0.000	0.000	0.000
149	10/12/2018	10:05:00	0.000	0.000	0.000
150	10/12/2018	10:06:00	0.000	0.000	0.000
151	10/12/2018	10:07:00	0.000	0.000	0.000
152	10/12/2018	10:08:00	0.000	0.000	0.000
153	10/12/2018	10:09:00	0.000	0.000	0.000
154	10/12/2018	10:10:00	0.000	0.000	0.000
155	10/12/2018	10:11:00	0.000	0.000	0.000
156	10/12/2018	10:12:00	0.000	0.000	0.000
157	10/12/2018	10:13:00	0.000	0.000	0.000
158	10/12/2018	10:14:00	0.000	0.000	0.000
159	10/12/2018	10:15:00	0.000	0.000	0.000
160	10/12/2018	10:16:00	0.000	0.000	0.000
161	10/12/2018	10:17:00	0.000	0.000	0.000
162	10/12/2018	10:18:00	0.000	0.000	0.000
163	10/12/2018	10:19:00	0.000	0.000	0.000
164	10/12/2018	10:20:00	0.000	0.000	0.000
165	10/12/2018	10:21:00	0.000	0.000	0.000
166	10/12/2018	10:22:00	0.000	0.000	0.000
167	10/12/2018	10:23:00	0.000	0.000	0.000
168	10/12/2018	10:24:00	0.000	0.000	0.000
169	10/12/2018	10:25:00	0.000	0.000	0.000
170	10/12/2018	10:26:00	0.000	0.000	0.000
171	10/12/2018	10:27:00	0.000	0.000	0.000
172	10/12/2018	10:28:00	0.000	0.000	0.000
173	10/12/2018	10:29:00	0.000	0.000	0.000
174	10/12/2018	10:30:00	0.000	0.000	0.000
175	10/12/2018	10:31:00	0.000	0.000	0.000
176	10/12/2018	10:32:00	0.000	0.000	0.000
177	10/12/2018	10:33:00	0.000	0.000	0.000
178	10/12/2018	10:34:00	0.000	0.000	0.000
179	10/12/2018	10:35:00	0.000	0.000	0.000
180	10/12/2018	10:36:00	0.000	0.000	0.000
181	10/12/2018	10:37:00	0.000	0.000	0.000
182	10/12/2018	10:38:00	0.000	0.000	0.000
183	10/12/2018	10:39:00	0.000	0.000	0.000
184	10/12/2018	10:40:00	0.000	0.000	0.000
185	10/12/2018	10:41:00	0.000	0.000	0.000
186	10/12/2018	10:42:00	0.000	0.000	0.000
187	10/12/2018	10:43:00	0.000	0.000	0.000
188	10/12/2018	10:44:00	0.000	0.000	0.000
189	10/12/2018	10:45:00	0.000	0.000	0.000
190	10/12/2018	10:46:00	0.000	0.000	0.000
191	10/12/2018	10:47:00	0.000	0.000	0.000
192	10/12/2018	10:48:00	0.000	0.000	0.000
193	10/12/2018	10:49:00	0.000	0.000	0.000
194	10/12/2018	10:50:00	0.000	0.000	0.000



195	10/12/2018	10:51:00	0.000	0.000	0.000
196	10/12/2018	10:52:00	0.000	0.000	0.000
197	10/12/2018	10:53:00	0.000	0.000	0.000
198	10/12/2018	10:54:00	0.000	0.000	0.000
199	10/12/2018	10:55:00	0.000	0.000	0.000
200	10/12/2018	10:56:00	0.000	0.000	0.000
201	10/12/2018	10:57:00	0.000	0.000	0.000
202	10/12/2018	10:58:00	0.000	0.000	0.000
203	10/12/2018	10:59:00	0.000	0.000	0.000
204	10/12/2018	11:00:00	0.000	0.000	0.000
205	10/12/2018	11:01:00	0.000	0.000	0.000
206	10/12/2018	11:02:00	0.000	0.000	0.000
207	10/12/2018	11:03:00	0.000	0.000	0.000
208	10/12/2018	11:04:00	0.000	0.000	0.000
209	10/12/2018	11:05:00	0.000	0.000	0.000
210	10/12/2018	11:06:00	0.000	0.000	0.000
211	10/12/2018	11:07:00	0.000	0.000	0.000
212	10/12/2018	11:08:00	0.000	0.000	0.000
213	10/12/2018	11:09:00	0.000	0.000	0.000
214	10/12/2018	11:10:00	0.000	0.000	0.000
215	10/12/2018	11:11:00	0.000	0.000	0.000
216	10/12/2018	11:12:00	0.000	0.000	0.000
217	10/12/2018	11:13:00	0.000	0.000	0.000
218	10/12/2018	11:14:00	0.000	0.000	0.000
219	10/12/2018	11:15:00	0.000	0.000	0.000
220	10/12/2018	11:16:00	0.000	0.000	0.000
221	10/12/2018	11:17:00	0.000	0.000	0.000
222	10/12/2018	11:18:00	0.000	0.000	0.000
223	10/12/2018	11:19:00	0.000	0.000	0.000
224	10/12/2018	11:20:00	0.000	0.000	0.000
225	10/12/2018	11:21:00	0.000	0.000	0.000
226	10/12/2018	11:22:00	0.000	0.000	0.000
227	10/12/2018	11:23:00	0.000	0.000	0.000
228	10/12/2018	11:24:00	0.000	0.000	0.000
229	10/12/2018	11:25:00	0.000	0.000	0.000
230	10/12/2018	11:26:00	0.000	0.000	0.000
231	10/12/2018	11:27:00	0.000	0.000	0.000
232	10/12/2018	11:28:00	0.000	0.000	0.000
233	10/12/2018	11:29:00	0.000	0.000	0.000
234	10/12/2018	11:30:00	0.000	0.000	0.000
235	10/12/2018	11:31:00	0.000	0.000	0.000
236	10/12/2018	11:32:00	0.000	0.000	0.000
237	10/12/2018	11:33:00	0.000	0.000	0.000
238	10/12/2018	11:34:00	0.000	0.000	0.000
239	10/12/2018	11:35:00	0.000	0.000	0.000
240	10/12/2018	11:36:00	0.000	0.000	0.000
241	10/12/2018	11:37:00	0.000	0.000	0.000

242	10/12/2018	11:38:00	0.000	0.000	0.000
243	10/12/2018	11:39:00	0.000	0.000	0.000
244	10/12/2018	11:40:00	0.000	0.000	0.000
245	10/12/2018	11:41:00	0.000	0.000	0.000
246	10/12/2018	11:42:00	0.000	0.000	0.000
247	10/12/2018	11:43:00	0.000	0.000	0.000
248	10/12/2018	11:44:00	0.000	0.000	0.000
249	10/12/2018	11:45:00	0.000	0.000	0.000
250	10/12/2018	11:46:00	0.000	0.000	0.000
251	10/12/2018	11:47:00	0.000	0.000	0.000
252	10/12/2018	11:48:00	0.000	0.000	0.000
253	10/12/2018	11:49:00	0.000	0.000	0.000
254	10/12/2018	11:50:00	0.000	0.000	0.000
255	10/12/2018	11:51:00	0.000	0.000	0.000
256	10/12/2018	11:52:00	0.000	0.000	0.000
257	10/12/2018	11:53:00	0.000	0.000	0.000
258	10/12/2018	11:54:00	0.000	0.000	0.000
259	10/12/2018	11:55:00	0.000	0.000	0.000
260	10/12/2018	11:56:00	0.000	0.000	0.000
261	10/12/2018	11:57:00	0.000	0.000	0.000
262	10/12/2018	11:58:00	0.000	0.000	0.000
263	10/12/2018	11:59:00	0.000	0.000	0.000
264	10/12/2018	12:00:00	0.000	0.000	0.000
265	10/12/2018	12:01:00	0.000	0.000	0.000
266	10/12/2018	12:02:00	0.000	0.000	0.000
267	10/12/2018	12:03:00	0.000	0.000	0.000
268	10/12/2018	12:04:00	0.000	0.000	0.000
269	10/12/2018	12:05:00	0.000	0.000	0.000
270	10/12/2018	12:06:00	0.000	0.000	0.000
271	10/12/2018	12:07:00	0.000	0.000	0.000
272	10/12/2018	12:08:00	0.000	0.000	0.000
273	10/12/2018	12:09:00	0.000	0.000	0.000
274	10/12/2018	12:10:00	0.000	0.000	0.000
275	10/12/2018	12:11:00	0.000	0.000	0.000
276	10/12/2018	12:12:00	0.000	0.000	0.000
277	10/12/2018	12:13:00	0.000	0.000	0.000
278	10/12/2018	12:14:00	0.000	0.000	0.000
279	10/12/2018	12:15:00	0.000	0.000	0.000
280	10/12/2018	12:16:00	0.000	0.000	0.000
281	10/12/2018	12:17:00	0.000	0.000	0.000
282	10/12/2018	12:18:00	0.000	0.000	0.000
283	10/12/2018	12:19:00	0.000	0.000	0.000
284	10/12/2018	12:20:00	0.000	0.000	0.000
285	10/12/2018	12:21:00	0.000	0.000	0.000
286	10/12/2018	12:22:00	0.000	0.000	0.000
287	10/12/2018	12:23:00	0.000	0.000	0.000
288	10/12/2018	12:24:00	0.000	0.000	0.000

289	10/12/2018	12:25:00	0.000	0.000	0.000
290	10/12/2018	12:26:00	0.000	0.000	0.000
291	10/12/2018	12:27:00	0.000	0.000	0.000
292	10/12/2018	12:28:00	0.000	0.000	0.000
293	10/12/2018	12:29:00	0.000	0.000	0.000
294	10/12/2018	12:30:00	0.000	0.000	0.000
295	10/12/2018	12:31:00	0.000	0.000	0.000
296	10/12/2018	12:32:00	0.000	0.000	0.000
297	10/12/2018	12:33:00	0.000	0.000	0.000
298	10/12/2018	12:34:00	0.000	0.000	0.000
299	10/12/2018	12:35:00	0.000	0.000	0.000
300	10/12/2018	12:36:00	0.000	0.000	0.000
301	10/12/2018	12:37:00	0.000	0.000	0.000
302	10/12/2018	12:38:00	0.000	0.000	0.000
303	10/12/2018	12:39:00	0.000	0.000	0.000
304	10/12/2018	12:40:00	0.000	0.000	0.000
305	10/12/2018	12:41:00	0.000	0.000	0.000
306	10/12/2018	12:42:00	0.000	0.000	0.000
307	10/12/2018	12:43:00	0.000	0.000	0.000
308	10/12/2018	12:44:00	0.000	0.000	0.000
309	10/12/2018	12:45:00	0.000	0.000	0.000
310	10/12/2018	12:46:00	0.000	0.000	0.000
311	10/12/2018	12:47:00	0.000	0.000	0.000
312	10/12/2018	12:48:00	0.000	0.000	0.000
313	10/12/2018	12:49:00	0.000	0.000	0.000
314	10/12/2018	12:50:00	0.000	0.000	0.000
315	10/12/2018	12:51:00	0.000	0.000	0.000
316	10/12/2018	12:52:00	0.000	0.000	0.000
317	10/12/2018	12:53:00	0.000	0.000	0.000
318	10/12/2018	12:54:00	0.000	0.000	0.000
319	10/12/2018	12:55:00	0.000	0.000	0.000
320	10/12/2018	12:56:00	0.000	0.000	0.000
321	10/12/2018	12:57:00	0.000	0.000	0.000
322	10/12/2018	12:58:00	0.000	0.000	0.000
323	10/12/2018	12:59:00	0.000	0.000	0.000
324	10/12/2018	13:00:00	0.000	0.000	0.000
325	10/12/2018	13:01:00	0.000	0.000	0.000
326	10/12/2018	13:02:00	0.000	0.000	0.000
327	10/12/2018	13:03:00	0.000	0.000	0.000
328	10/12/2018	13:04:00	0.000	0.000	0.000
329	10/12/2018	13:05:00	0.000	0.000	0.000
330	10/12/2018	13:06:00	0.000	0.000	0.000
331	10/12/2018	13:07:00	0.000	0.000	0.000
332	10/12/2018	13:08:00	0.000	0.000	0.000
333	10/12/2018	13:09:00	0.000	0.000	0.000
334	10/12/2018	13:10:00	0.000	0.000	0.000
335	10/12/2018	13:11:00	0.000	0.000	0.000

336	10/12/2018	13:12:00	0.000	0.000	0.000
337	10/12/2018	13:13:00	0.000	0.000	0.000
338	10/12/2018	13:14:00	0.000	0.000	0.000
339	10/12/2018	13:15:00	0.000	0.000	0.000
340	10/12/2018	13:16:00	0.000	0.000	0.000
341	10/12/2018	13:17:00	0.000	0.000	0.000
342	10/12/2018	13:18:00	0.000	0.000	0.000
343	10/12/2018	13:19:00	0.000	0.000	0.000
344	10/12/2018	13:20:00	0.000	0.000	0.000
345	10/12/2018	13:21:00	0.000	0.000	0.000
346	10/12/2018	13:22:00	0.000	0.000	0.000
347	10/12/2018	13:23:00	0.000	0.000	0.000
348	10/12/2018	13:24:00	0.000	0.000	0.000
349	10/12/2018	13:25:00	0.000	0.000	0.000
350	10/12/2018	13:26:00	0.000	0.000	0.000
351	10/12/2018	13:27:00	0.000	0.000	0.000
352	10/12/2018	13:28:00	0.000	0.000	0.000
353	10/12/2018	13:29:00	0.000	0.000	0.000
354	10/12/2018	13:30:00	0.000	0.000	0.000
355	10/12/2018	13:31:00	0.000	0.000	0.000
356	10/12/2018	13:32:00	0.000	0.000	0.000
357	10/12/2018	13:33:00	0.000	0.000	0.000
358	10/12/2018	13:34:00	0.000	0.000	0.000
359	10/12/2018	13:35:00	0.000	0.000	0.000
360	10/12/2018	13:36:00	0.000	0.000	0.000
361	10/12/2018	13:37:00	0.000	0.000	0.000
362	10/12/2018	13:38:00	0.000	0.000	0.000
363	10/12/2018	13:39:00	0.000	0.000	0.000
364	10/12/2018	13:40:00	0.000	0.000	0.000
365	10/12/2018	13:41:00	0.000	0.000	0.000
366	10/12/2018	13:42:00	0.000	0.000	0.000
367	10/12/2018	13:43:00	0.000	0.000	0.000
368	10/12/2018	13:44:00	0.000	0.000	0.000
369	10/12/2018	13:45:00	0.000	0.000	0.000
370	10/12/2018	13:46:00	0.000	0.000	0.000
371	10/12/2018	13:47:00	0.000	0.000	0.000
372	10/12/2018	13:48:00	0.000	0.000	0.000
373	10/12/2018	13:49:00	0.000	0.000	0.000
374	10/12/2018	13:50:00	0.000	0.000	0.000
375	10/12/2018	13:51:00	0.000	0.000	0.000
376	10/12/2018	13:52:00	0.000	0.000	0.000
377	10/12/2018	13:53:00	0.000	0.000	0.000
378	10/12/2018	13:54:00	0.000	0.000	0.000
379	10/12/2018	13:55:00	0.000	0.000	0.000
380	10/12/2018	13:56:00	0.000	0.000	0.000
381	10/12/2018	13:57:00	0.000	0.000	0.000
382	10/12/2018	13:58:00	0.000	0.000	0.000

383	10/12/2018	13:59:00	0.000	0.000	0.000
384	10/12/2018	14:00:00	0.000	0.000	0.000
385	10/12/2018	14:01:00	0.000	0.000	0.000
386	10/12/2018	14:02:00	0.000	0.000	0.000
387	10/12/2018	14:03:00	0.000	0.000	0.000
388	10/12/2018	14:04:00	0.000	0.000	0.000
389	10/12/2018	14:05:00	0.000	0.000	0.000
390	10/12/2018	14:06:00	0.000	0.000	0.000
391	10/12/2018	14:07:00	0.000	0.000	0.000
392	10/12/2018	14:08:00	0.000	0.000	0.000
393	10/12/2018	14:09:00	0.000	0.000	0.000
394	10/12/2018	14:10:00	0.000	0.000	0.000
395	10/12/2018	14:11:00	0.000	0.000	0.000
396	10/12/2018	14:12:00	0.000	0.000	0.000
397	10/12/2018	14:13:00	0.000	0.000	0.000
398	10/12/2018	14:14:00	0.000	0.000	0.000
399	10/12/2018	14:15:00	0.000	0.000	0.000
400	10/12/2018	14:16:00	0.000	0.000	0.000
401	10/12/2018	14:17:00	0.000	0.000	0.000
402	10/12/2018	14:18:00	0.000	0.000	0.000
403	10/12/2018	14:19:00	0.000	0.000	0.000
404	10/12/2018	14:20:00	0.000	0.000	0.000

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18/10/15 08:06

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Summary

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Unit Name           MiniRAE 3000(PGM-7320)  
Unit SN             592-912760  
Unit Firmware Ver   V1.20A  
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Running Mode        Hygiene Mode  
Measure Type        Avg; Max; Real  
Datalog Mode        Continuous  
Datalog Type        Auto  
Diagnostic Mode     No  
Stop Reason         Power Down  
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Site ID             12345678  
User ID             12345678  
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Begin               10/15/2018 8:07  
End                  10/15/2018 16:19  
Sample Period(s)    60  
Number of Records   492  
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Sensor              VOC(ppm)  
Span                100  
Span 2              N/A  
Low Alarm           50  
High Alarm          100  
Over Alarm          15000  
STEL Alarm          100  
TWA Alarm           50  
Measurement Gas     Isobutylene  
Calibration Time    10/15/2018 7:42  
Peak                0.240  
Min                  0.000  
Average             0.128  
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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	10/15/2018 8:07	0.000	0.000	0.000
2	10/15/2018 8:08	0.000	0.000	0.000
3	10/15/2018 8:09	0.000	0.000	0.000
4	10/15/2018 8:10	0.000	0.000	0.000
5	10/15/2018 8:11	0.000	0.000	0.000

6	10/15/2018 8:12	0.003	0.013	0.008
7	10/15/2018 8:13	0.012	0.021	0.020
8	10/15/2018 8:14	0.027	0.037	0.033
9	10/15/2018 8:15	0.039	0.056	0.055
10	10/15/2018 8:16	0.041	0.052	0.036
11	10/15/2018 8:17	0.026	0.043	0.000
12	10/15/2018 8:18	0.011	0.022	0.009
13	10/15/2018 8:19	0.001	0.011	0.004
14	10/15/2018 8:20	0.001	0.006	0.005
15	10/15/2018 8:21	0.001	0.006	0.004
16	10/15/2018 8:22	0.002	0.006	0.006
17	10/15/2018 8:23	0.004	0.009	0.006
18	10/15/2018 8:24	0.005	0.011	0.011
19	10/15/2018 8:25	0.009	0.017	0.008
20	10/15/2018 8:26	0.010	0.016	0.008
21	10/15/2018 8:27	0.013	0.021	0.019
22	10/15/2018 8:28	0.022	0.028	0.026
23	10/15/2018 8:29	0.040	0.056	0.038
24	10/15/2018 8:30	0.034	0.049	0.028
25	10/15/2018 8:31	0.028	0.036	0.034
26	10/15/2018 8:32	0.030	0.034	0.031
27	10/15/2018 8:33	0.030	0.034	0.033
28	10/15/2018 8:34	0.032	0.036	0.030
29	10/15/2018 8:35	0.029	0.033	0.032
30	10/15/2018 8:36	0.032	0.037	0.031
31	10/15/2018 8:37	0.032	0.037	0.029
32	10/15/2018 8:38	0.035	0.039	0.038
33	10/15/2018 8:39	0.040	0.046	0.040
34	10/15/2018 8:40	0.041	0.046	0.046
35	10/15/2018 8:41	0.042	0.047	0.035
36	10/15/2018 8:42	0.045	0.054	0.045
37	10/15/2018 8:43	0.042	0.047	0.042
38	10/15/2018 8:44	0.040	0.045	0.042
39	10/15/2018 8:45	0.042	0.046	0.043
40	10/15/2018 8:46	0.041	0.047	0.036
41	10/15/2018 8:47	0.051	0.065	0.062
42	10/15/2018 8:48	0.073	0.078	0.065
43	10/15/2018 8:49	0.067	0.076	0.061
44	10/15/2018 8:50	0.063	0.069	0.063
45	10/15/2018 8:51	0.068	0.075	0.071
46	10/15/2018 8:52	0.067	0.071	0.068
47	10/15/2018 8:53	0.057	0.067	0.056
48	10/15/2018 8:54	0.058	0.062	0.061
49	10/15/2018 8:55	0.055	0.063	0.050
50	10/15/2018 8:56	0.044	0.055	0.025
51	10/15/2018 8:57	0.027	0.033	0.027
52	10/15/2018 8:58	0.020	0.032	0.004

53	10/15/2018 8:59	0.008	0.017	0.015
54	10/15/2018 9:00	0.011	0.021	0.004
55	10/15/2018 9:01	0.003	0.009	0.002
56	10/15/2018 9:02	0.092	0.175	0.121
57	10/15/2018 9:03	0.045	0.114	0.013
58	10/15/2018 9:04	0.002	0.015	0.000
59	10/15/2018 9:05	0.001	0.005	0.004
60	10/15/2018 9:06	0.001	0.005	0.000
61	10/15/2018 9:07	0.000	0.000	0.000
62	10/15/2018 9:08	0.000	0.000	0.000
63	10/15/2018 9:09	0.000	0.000	0.000
64	10/15/2018 9:10	0.000	0.000	0.000
65	10/15/2018 9:11	0.000	0.000	0.000
66	10/15/2018 9:12	0.000	0.000	0.000
67	10/15/2018 9:13	0.000	0.000	0.000
68	10/15/2018 9:14	0.000	0.000	0.000
69	10/15/2018 9:15	0.000	0.000	0.000
70	10/15/2018 9:16	0.000	0.013	0.013
71	10/15/2018 9:17	0.029	0.061	0.018
72	10/15/2018 9:18	0.015	0.036	0.002
73	10/15/2018 9:19	0.001	0.005	0.002
74	10/15/2018 9:20	0.023	0.060	0.035
75	10/15/2018 9:21	0.012	0.032	0.016
76	10/15/2018 9:22	0.010	0.017	0.005
77	10/15/2018 9:23	0.004	0.010	0.005
78	10/15/2018 9:24	0.002	0.008	0.004
79	10/15/2018 9:25	0.002	0.009	0.007
80	10/15/2018 9:26	0.003	0.007	0.004
81	10/15/2018 9:27	0.003	0.008	0.001
82	10/15/2018 9:28	0.002	0.008	0.005
83	10/15/2018 9:29	0.006	0.011	0.002
84	10/15/2018 9:30	0.010	0.016	0.013
85	10/15/2018 9:31	0.011	0.016	0.015
86	10/15/2018 9:32	0.012	0.019	0.018
87	10/15/2018 9:33	0.020	0.027	0.020
88	10/15/2018 9:34	0.020	0.023	0.019
89	10/15/2018 9:35	0.020	0.027	0.014
90	10/15/2018 9:36	0.015	0.019	0.013
91	10/15/2018 9:37	0.018	0.023	0.018
92	10/15/2018 9:38	0.017	0.021	0.019
93	10/15/2018 9:39	0.016	0.021	0.021
94	10/15/2018 9:40	0.019	0.025	0.018
95	10/15/2018 9:41	0.025	0.041	0.038
96	10/15/2018 9:42	0.024	0.035	0.025
97	10/15/2018 9:43	0.022	0.026	0.022
98	10/15/2018 9:44	0.021	0.026	0.024
99	10/15/2018 9:45	0.025	0.034	0.029



100	10/15/2018 9:46	0.028	0.033	0.031
101	10/15/2018 9:47	0.030	0.035	0.029
102	10/15/2018 9:48	0.035	0.041	0.040
103	10/15/2018 9:49	0.033	0.040	0.032
104	10/15/2018 9:50	0.033	0.038	0.035
105	10/15/2018 9:51	0.034	0.041	0.034
106	10/15/2018 9:52	0.033	0.039	0.035
107	10/15/2018 9:53	0.039	0.043	0.038
108	10/15/2018 9:54	0.037	0.046	0.039
109	10/15/2018 9:55	0.039	0.044	0.041
110	10/15/2018 9:56	0.039	0.045	0.037
111	10/15/2018 9:57	0.041	0.047	0.039
112	10/15/2018 9:58	0.041	0.049	0.041
113	10/15/2018 9:59	0.044	0.049	0.046
114	10/15/2018 10:00	0.047	0.054	0.048
115	10/15/2018 10:01	0.047	0.054	0.054
116	10/15/2018 10:02	0.049	0.055	0.047
117	10/15/2018 10:03	0.052	0.058	0.053
118	10/15/2018 10:04	0.058	0.074	0.059
119	10/15/2018 10:05	0.057	0.061	0.058
120	10/15/2018 10:06	0.081	0.117	0.086
121	10/15/2018 10:07	0.078	0.086	0.072
122	10/15/2018 10:08	0.075	0.089	0.075
123	10/15/2018 10:09	0.080	0.109	0.069
124	10/15/2018 10:10	0.070	0.076	0.069
125	10/15/2018 10:11	0.070	0.077	0.067
126	10/15/2018 10:12	0.067	0.077	0.077
127	10/15/2018 10:13	0.077	0.086	0.074
128	10/15/2018 10:14	0.070	0.077	0.068
129	10/15/2018 10:15	0.075	0.088	0.070
130	10/15/2018 10:16	0.071	0.077	0.071
131	10/15/2018 10:17	0.067	0.073	0.069
132	10/15/2018 10:18	0.068	0.075	0.067
133	10/15/2018 10:19	0.065	0.072	0.066
134	10/15/2018 10:20	0.073	0.088	0.080
135	10/15/2018 10:21	0.079	0.089	0.074
136	10/15/2018 10:22	0.070	0.079	0.072
137	10/15/2018 10:23	0.069	0.073	0.072
138	10/15/2018 10:24	0.067	0.073	0.063
139	10/15/2018 10:25	0.069	0.079	0.069
140	10/15/2018 10:26	0.074	0.089	0.075
141	10/15/2018 10:27	0.076	0.082	0.080
142	10/15/2018 10:28	0.074	0.079	0.077
143	10/15/2018 10:29	0.080	0.092	0.086
144	10/15/2018 10:30	0.086	0.092	0.088
145	10/15/2018 10:31	0.094	0.108	0.083
146	10/15/2018 10:32	0.084	0.090	0.078

147	10/15/2018 10:33	0.080	0.086	0.085
148	10/15/2018 10:34	0.093	0.102	0.090
149	10/15/2018 10:35	0.089	0.096	0.096
150	10/15/2018 10:36	0.097	0.106	0.102
151	10/15/2018 10:37	0.111	0.156	0.098
152	10/15/2018 10:38	0.092	0.100	0.083
153	10/15/2018 10:39	0.083	0.089	0.082
154	10/15/2018 10:40	0.083	0.088	0.083
155	10/15/2018 10:41	0.085	0.090	0.090
156	10/15/2018 10:42	0.087	0.092	0.080
157	10/15/2018 10:43	0.085	0.091	0.084
158	10/15/2018 10:44	0.088	0.097	0.084
159	10/15/2018 10:45	0.088	0.093	0.086
160	10/15/2018 10:46	0.090	0.096	0.093
161	10/15/2018 10:47	0.092	0.098	0.095
162	10/15/2018 10:48	0.091	0.098	0.098
163	10/15/2018 10:49	0.098	0.113	0.096
164	10/15/2018 10:50	0.094	0.098	0.098
165	10/15/2018 10:51	0.096	0.101	0.100
166	10/15/2018 10:52	0.098	0.106	0.095
167	10/15/2018 10:53	0.096	0.103	0.095
168	10/15/2018 10:54	0.097	0.101	0.095
169	10/15/2018 10:55	0.099	0.107	0.103
170	10/15/2018 10:56	0.101	0.105	0.097
171	10/15/2018 10:57	0.099	0.106	0.104
172	10/15/2018 10:58	0.100	0.108	0.108
173	10/15/2018 10:59	0.104	0.109	0.106
174	10/15/2018 11:00	0.106	0.116	0.112
175	10/15/2018 11:01	0.109	0.116	0.112
176	10/15/2018 11:02	0.110	0.115	0.107
177	10/15/2018 11:03	0.110	0.116	0.109
178	10/15/2018 11:04	0.110	0.114	0.109
179	10/15/2018 11:05	0.110	0.118	0.114
180	10/15/2018 11:06	0.111	0.121	0.113
181	10/15/2018 11:07	0.109	0.113	0.111
182	10/15/2018 11:08	0.115	0.119	0.114
183	10/15/2018 11:09	0.112	0.118	0.115
184	10/15/2018 11:10	0.114	0.119	0.114
185	10/15/2018 11:11	0.116	0.120	0.116
186	10/15/2018 11:12	0.117	0.124	0.117
187	10/15/2018 11:13	0.114	0.119	0.113
188	10/15/2018 11:14	0.117	0.125	0.115
189	10/15/2018 11:15	0.118	0.122	0.122
190	10/15/2018 11:16	0.120	0.127	0.117
191	10/15/2018 11:17	0.117	0.122	0.120
192	10/15/2018 11:18	0.121	0.127	0.120
193	10/15/2018 11:19	0.120	0.123	0.122

194	10/15/2018 11:20	0.125	0.131	0.119
195	10/15/2018 11:21	0.122	0.131	0.122
196	10/15/2018 11:22	0.122	0.131	0.124
197	10/15/2018 11:23	0.122	0.128	0.116
198	10/15/2018 11:24	0.125	0.133	0.130
199	10/15/2018 11:25	0.128	0.134	0.129
200	10/15/2018 11:26	0.130	0.137	0.127
201	10/15/2018 11:27	0.128	0.132	0.128
202	10/15/2018 11:28	0.127	0.132	0.128
203	10/15/2018 11:29	0.129	0.134	0.127
204	10/15/2018 11:30	0.131	0.135	0.128
205	10/15/2018 11:31	0.132	0.136	0.134
206	10/15/2018 11:32	0.129	0.133	0.127
207	10/15/2018 11:33	0.127	0.131	0.127
208	10/15/2018 11:34	0.131	0.138	0.131
209	10/15/2018 11:35	0.128	0.133	0.127
210	10/15/2018 11:36	0.132	0.137	0.129
211	10/15/2018 11:37	0.131	0.135	0.131
212	10/15/2018 11:38	0.133	0.142	0.140
213	10/15/2018 11:39	0.136	0.142	0.133
214	10/15/2018 11:40	0.135	0.142	0.140
215	10/15/2018 11:41	0.136	0.143	0.132
216	10/15/2018 11:42	0.135	0.142	0.133
217	10/15/2018 11:43	0.134	0.139	0.137
218	10/15/2018 11:44	0.136	0.141	0.137
219	10/15/2018 11:45	0.136	0.143	0.137
220	10/15/2018 11:46	0.142	0.146	0.139
221	10/15/2018 11:47	0.149	0.166	0.158
222	10/15/2018 11:48	0.142	0.156	0.135
223	10/15/2018 11:49	0.133	0.139	0.139
224	10/15/2018 11:50	0.135	0.141	0.138
225	10/15/2018 11:51	0.139	0.146	0.141
226	10/15/2018 11:52	0.138	0.145	0.136
227	10/15/2018 11:53	0.143	0.149	0.143
228	10/15/2018 11:54	0.143	0.149	0.138
229	10/15/2018 11:55	0.144	0.148	0.147
230	10/15/2018 11:56	0.146	0.153	0.144
231	10/15/2018 11:57	0.143	0.146	0.141
232	10/15/2018 11:58	0.146	0.154	0.153
233	10/15/2018 11:59	0.146	0.152	0.144
234	10/15/2018 12:00	0.149	0.157	0.157
235	10/15/2018 12:01	0.153	0.160	0.152
236	10/15/2018 12:02	0.150	0.155	0.151
237	10/15/2018 12:03	0.154	0.164	0.155
238	10/15/2018 12:04	0.157	0.165	0.153
239	10/15/2018 12:05	0.156	0.161	0.155
240	10/15/2018 12:06	0.153	0.156	0.151

241	10/15/2018 12:07	0.157	0.161	0.159
242	10/15/2018 12:08	0.159	0.162	0.156
243	10/15/2018 12:09	0.154	0.159	0.157
244	10/15/2018 12:10	0.156	0.162	0.156
245	10/15/2018 12:11	0.156	0.161	0.154
246	10/15/2018 12:12	0.158	0.165	0.159
247	10/15/2018 12:13	0.170	0.196	0.167
248	10/15/2018 12:14	0.162	0.171	0.160
249	10/15/2018 12:15	0.157	0.168	0.154
250	10/15/2018 12:16	0.157	0.166	0.156
251	10/15/2018 12:17	0.157	0.162	0.157
252	10/15/2018 12:18	0.154	0.159	0.152
253	10/15/2018 12:19	0.157	0.167	0.149
254	10/15/2018 12:20	0.154	0.162	0.161
255	10/15/2018 12:21	0.157	0.162	0.158
256	10/15/2018 12:22	0.153	0.161	0.147
257	10/15/2018 12:23	0.153	0.159	0.154
258	10/15/2018 12:24	0.157	0.162	0.158
259	10/15/2018 12:25	0.161	0.168	0.161
260	10/15/2018 12:26	0.163	0.169	0.158
261	10/15/2018 12:27	0.160	0.167	0.162
262	10/15/2018 12:28	0.161	0.165	0.163
263	10/15/2018 12:29	0.158	0.170	0.160
264	10/15/2018 12:30	0.160	0.168	0.157
265	10/15/2018 12:31	0.162	0.178	0.178
266	10/15/2018 12:32	0.172	0.181	0.166
267	10/15/2018 12:33	0.169	0.176	0.161
268	10/15/2018 12:34	0.164	0.172	0.164
269	10/15/2018 12:35	0.162	0.168	0.163
270	10/15/2018 12:36	0.164	0.169	0.163
271	10/15/2018 12:37	0.165	0.170	0.160
272	10/15/2018 12:38	0.160	0.166	0.158
273	10/15/2018 12:39	0.163	0.188	0.188
274	10/15/2018 12:40	0.200	0.223	0.207
275	10/15/2018 12:41	0.200	0.213	0.184
276	10/15/2018 12:42	0.172	0.187	0.164
277	10/15/2018 12:43	0.166	0.174	0.164
278	10/15/2018 12:44	0.169	0.180	0.176
279	10/15/2018 12:45	0.173	0.179	0.170
280	10/15/2018 12:46	0.167	0.172	0.167
281	10/15/2018 12:47	0.167	0.171	0.168
282	10/15/2018 12:48	0.174	0.190	0.187
283	10/15/2018 12:49	0.171	0.184	0.170
284	10/15/2018 12:50	0.165	0.172	0.164
285	10/15/2018 12:51	0.168	0.175	0.169
286	10/15/2018 12:52	0.170	0.178	0.175
287	10/15/2018 12:53	0.171	0.179	0.167

288	10/15/2018 12:54	0.167	0.174	0.174
289	10/15/2018 12:55	0.171	0.177	0.169
290	10/15/2018 12:56	0.168	0.174	0.167
291	10/15/2018 12:57	0.170	0.176	0.176
292	10/15/2018 12:58	0.176	0.181	0.176
293	10/15/2018 12:59	0.176	0.184	0.180
294	10/15/2018 13:00	0.179	0.184	0.180
295	10/15/2018 13:01	0.174	0.181	0.175
296	10/15/2018 13:02	0.174	0.181	0.175
297	10/15/2018 13:03	0.171	0.177	0.177
298	10/15/2018 13:04	0.169	0.177	0.169
299	10/15/2018 13:05	0.176	0.183	0.182
300	10/15/2018 13:06	0.178	0.183	0.171
301	10/15/2018 13:07	0.176	0.183	0.177
302	10/15/2018 13:08	0.176	0.184	0.182
303	10/15/2018 13:09	0.179	0.184	0.174
304	10/15/2018 13:10	0.176	0.181	0.173
305	10/15/2018 13:11	0.173	0.179	0.172
306	10/15/2018 13:12	0.170	0.176	0.171
307	10/15/2018 13:13	0.174	0.179	0.174
308	10/15/2018 13:14	0.173	0.183	0.183
309	10/15/2018 13:15	0.174	0.184	0.169
310	10/15/2018 13:16	0.171	0.176	0.172
311	10/15/2018 13:17	0.172	0.177	0.174
312	10/15/2018 13:18	0.172	0.179	0.168
313	10/15/2018 13:19	0.169	0.175	0.168
314	10/15/2018 13:20	0.170	0.177	0.172
315	10/15/2018 13:21	0.174	0.182	0.182
316	10/15/2018 13:22	0.176	0.182	0.176
317	10/15/2018 13:23	0.177	0.183	0.176
318	10/15/2018 13:24	0.182	0.188	0.178
319	10/15/2018 13:25	0.178	0.185	0.176
320	10/15/2018 13:26	0.175	0.179	0.173
321	10/15/2018 13:27	0.176	0.184	0.177
322	10/15/2018 13:28	0.177	0.185	0.171
323	10/15/2018 13:29	0.179	0.186	0.184
324	10/15/2018 13:30	0.177	0.185	0.170
325	10/15/2018 13:31	0.178	0.183	0.178
326	10/15/2018 13:32	0.172	0.177	0.171
327	10/15/2018 13:33	0.175	0.184	0.184
328	10/15/2018 13:34	0.177	0.183	0.175
329	10/15/2018 13:35	0.178	0.184	0.179
330	10/15/2018 13:36	0.176	0.182	0.176
331	10/15/2018 13:37	0.178	0.182	0.180
332	10/15/2018 13:38	0.181	0.186	0.181
333	10/15/2018 13:39	0.182	0.189	0.182
334	10/15/2018 13:40	0.178	0.183	0.175

335	10/15/2018 13:41	0.180	0.186	0.179
336	10/15/2018 13:42	0.176	0.182	0.177
337	10/15/2018 13:43	0.180	0.185	0.183
338	10/15/2018 13:44	0.181	0.189	0.187
339	10/15/2018 13:45	0.182	0.188	0.184
340	10/15/2018 13:46	0.181	0.185	0.179
341	10/15/2018 13:47	0.179	0.184	0.179
342	10/15/2018 13:48	0.182	0.186	0.186
343	10/15/2018 13:49	0.183	0.188	0.182
344	10/15/2018 13:50	0.180	0.187	0.187
345	10/15/2018 13:51	0.184	0.190	0.179
346	10/15/2018 13:52	0.182	0.190	0.179
347	10/15/2018 13:53	0.182	0.186	0.183
348	10/15/2018 13:54	0.177	0.185	0.177
349	10/15/2018 13:55	0.175	0.181	0.178
350	10/15/2018 13:56	0.177	0.183	0.170
351	10/15/2018 13:57	0.178	0.186	0.183
352	10/15/2018 13:58	0.178	0.183	0.176
353	10/15/2018 13:59	0.181	0.188	0.183
354	10/15/2018 14:00	0.184	0.194	0.187
355	10/15/2018 14:01	0.185	0.190	0.187
356	10/15/2018 14:02	0.186	0.192	0.186
357	10/15/2018 14:03	0.181	0.186	0.180
358	10/15/2018 14:04	0.181	0.190	0.187
359	10/15/2018 14:05	0.183	0.191	0.187
360	10/15/2018 14:06	0.185	0.193	0.184
361	10/15/2018 14:07	0.184	0.190	0.184
362	10/15/2018 14:08	0.185	0.190	0.186
363	10/15/2018 14:09	0.184	0.191	0.187
364	10/15/2018 14:10	0.186	0.193	0.188
365	10/15/2018 14:11	0.186	0.192	0.185
366	10/15/2018 14:12	0.182	0.187	0.185
367	10/15/2018 14:13	0.184	0.189	0.186
368	10/15/2018 14:14	0.186	0.192	0.191
369	10/15/2018 14:15	0.191	0.195	0.186
370	10/15/2018 14:16	0.187	0.193	0.187
371	10/15/2018 14:17	0.189	0.196	0.185
372	10/15/2018 14:18	0.189	0.199	0.196
373	10/15/2018 14:19	0.190	0.196	0.195
374	10/15/2018 14:20	0.186	0.198	0.184
375	10/15/2018 14:21	0.181	0.185	0.180
376	10/15/2018 14:22	0.184	0.192	0.191
377	10/15/2018 14:23	0.188	0.194	0.189
378	10/15/2018 14:24	0.185	0.192	0.183
379	10/15/2018 14:25	0.186	0.191	0.186
380	10/15/2018 14:26	0.184	0.187	0.186
381	10/15/2018 14:27	0.188	0.194	0.188

382	10/15/2018 14:28	0.188	0.192	0.191
383	10/15/2018 14:29	0.189	0.194	0.189
384	10/15/2018 14:30	0.190	0.194	0.190
385	10/15/2018 14:31	0.188	0.194	0.186
386	10/15/2018 14:32	0.185	0.190	0.184
387	10/15/2018 14:33	0.190	0.195	0.191
388	10/15/2018 14:34	0.196	0.204	0.196
389	10/15/2018 14:35	0.196	0.202	0.192
390	10/15/2018 14:36	0.191	0.197	0.189
391	10/15/2018 14:37	0.193	0.203	0.198
392	10/15/2018 14:38	0.190	0.201	0.187
393	10/15/2018 14:39	0.185	0.190	0.186
394	10/15/2018 14:40	0.192	0.201	0.188
395	10/15/2018 14:41	0.191	0.195	0.194
396	10/15/2018 14:42	0.195	0.204	0.191
397	10/15/2018 14:43	0.198	0.204	0.197
398	10/15/2018 14:44	0.205	0.218	0.207
399	10/15/2018 14:45	0.199	0.205	0.203
400	10/15/2018 14:46	0.197	0.203	0.196
401	10/15/2018 14:47	0.197	0.202	0.196
402	10/15/2018 14:48	0.196	0.200	0.196
403	10/15/2018 14:49	0.196	0.200	0.197
404	10/15/2018 14:50	0.199	0.207	0.202
405	10/15/2018 14:51	0.202	0.208	0.207
406	10/15/2018 14:52	0.198	0.206	0.196
407	10/15/2018 14:53	0.199	0.204	0.202
408	10/15/2018 14:54	0.202	0.209	0.208
409	10/15/2018 14:55	0.204	0.210	0.203
410	10/15/2018 14:56	0.202	0.209	0.202
411	10/15/2018 14:57	0.203	0.208	0.202
412	10/15/2018 14:58	0.199	0.205	0.203
413	10/15/2018 14:59	0.201	0.206	0.206
414	10/15/2018 15:00	0.201	0.207	0.202
415	10/15/2018 15:01	0.198	0.203	0.198
416	10/15/2018 15:02	0.197	0.203	0.193
417	10/15/2018 15:03	0.200	0.215	0.208
418	10/15/2018 15:04	0.203	0.209	0.206
419	10/15/2018 15:05	0.207	0.215	0.215
420	10/15/2018 15:06	0.215	0.227	0.209
421	10/15/2018 15:07	0.208	0.217	0.199
422	10/15/2018 15:08	0.200	0.213	0.206
423	10/15/2018 15:09	0.212	0.221	0.203
424	10/15/2018 15:10	0.204	0.211	0.206
425	10/15/2018 15:11	0.204	0.210	0.200
426	10/15/2018 15:12	0.205	0.210	0.202
427	10/15/2018 15:13	0.204	0.209	0.200
428	10/15/2018 15:14	0.207	0.227	0.208

429	10/15/2018 15:15	0.214	0.229	0.207
430	10/15/2018 15:16	0.202	0.207	0.203
431	10/15/2018 15:17	0.201	0.207	0.202
432	10/15/2018 15:18	0.200	0.210	0.194
433	10/15/2018 15:19	0.201	0.209	0.209
434	10/15/2018 15:20	0.203	0.214	0.204
435	10/15/2018 15:21	0.199	0.203	0.200
436	10/15/2018 15:22	0.202	0.208	0.199
437	10/15/2018 15:23	0.200	0.207	0.202
438	10/15/2018 15:24	0.199	0.204	0.198
439	10/15/2018 15:25	0.198	0.206	0.205
440	10/15/2018 15:26	0.202	0.209	0.202
441	10/15/2018 15:27	0.204	0.211	0.198
442	10/15/2018 15:28	0.198	0.204	0.195
443	10/15/2018 15:29	0.201	0.206	0.202
444	10/15/2018 15:30	0.201	0.208	0.205
445	10/15/2018 15:31	0.203	0.211	0.209
446	10/15/2018 15:32	0.204	0.211	0.204
447	10/15/2018 15:33	0.206	0.215	0.207
448	10/15/2018 15:34	0.206	0.213	0.205
449	10/15/2018 15:35	0.202	0.208	0.208
450	10/15/2018 15:36	0.202	0.209	0.201
451	10/15/2018 15:37	0.201	0.205	0.203
452	10/15/2018 15:38	0.205	0.212	0.208
453	10/15/2018 15:39	0.203	0.208	0.203
454	10/15/2018 15:40	0.203	0.209	0.198
455	10/15/2018 15:41	0.201	0.209	0.196
456	10/15/2018 15:42	0.200	0.206	0.203
457	10/15/2018 15:43	0.203	0.208	0.206
458	10/15/2018 15:44	0.204	0.211	0.211
459	10/15/2018 15:45	0.208	0.214	0.204
460	10/15/2018 15:46	0.203	0.208	0.208
461	10/15/2018 15:47	0.211	0.240	0.203
462	10/15/2018 15:48	0.203	0.209	0.198
463	10/15/2018 15:49	0.201	0.206	0.201
464	10/15/2018 15:50	0.204	0.210	0.206
465	10/15/2018 15:51	0.202	0.208	0.205
466	10/15/2018 15:52	0.202	0.207	0.201
467	10/15/2018 15:53	0.201	0.205	0.202
468	10/15/2018 15:54	0.199	0.205	0.199
469	10/15/2018 15:55	0.202	0.207	0.203
470	10/15/2018 15:56	0.202	0.209	0.203
471	10/15/2018 15:57	0.200	0.205	0.199
472	10/15/2018 15:58	0.204	0.211	0.201
473	10/15/2018 15:59	0.208	0.214	0.210
474	10/15/2018 16:00	0.205	0.211	0.208
475	10/15/2018 16:01	0.202	0.209	0.199



476	10/15/2018 16:02	0.202	0.206	0.204
477	10/15/2018 16:03	0.199	0.205	0.200
478	10/15/2018 16:04	0.202	0.222	0.214
479	10/15/2018 16:05	0.203	0.214	0.200
480	10/15/2018 16:06	0.207	0.222	0.211
481	10/15/2018 16:07	0.218	0.231	0.231
482	10/15/2018 16:08	0.222	0.238	0.218
483	10/15/2018 16:09	0.212	0.221	0.210
484	10/15/2018 16:10	0.209	0.214	0.205
485	10/15/2018 16:11	0.203	0.209	0.199
486	10/15/2018 16:12	0.199	0.203	0.203
487	10/15/2018 16:13	0.203	0.207	0.198
488	10/15/2018 16:14	0.200	0.205	0.199
489	10/15/2018 16:15	0.201	0.205	0.204
490	10/15/2018 16:16	0.199	0.204	0.193
491	10/15/2018 16:17	0.196	0.206	0.202
492	10/15/2018 16:18	0.201	0.214	0.214

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18/10/16 08:09

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Summary

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Unit Name           MiniRAE 3000(PGM-7320)  
Unit SN             592-912760  
Unit Firmware Ver   V1.20A  
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Running Mode        Hygiene Mode  
Measure Type        Avg; Max; Real  
Datalog Mode        Continuous  
Datalog Type        Auto  
Diagnostic Mode     No  
Stop Reason         Power Down  
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Site ID             12345678  
User ID             12345678  
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Begin               10/16/2018 8:10  
End                  10/16/2018 15:01  
Sample Period(s)    60  
Number of Records   412  
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Sensor              VOC(ppm)  
Span                 100  
Span 2               N/A  
Low Alarm            50  
High Alarm           100  
Over Alarm           15000  
STEL Alarm           100  
TWA Alarm            50  
Measurement Gas     Isobutylene  
Calibration Time    10/16/2018 8:04  
Peak                 0.253  
Min                  0.000  
Average              0.120

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Datalog

		VOC(ppm)	VOC(ppm)	VOC(ppm)
Index	Date/Time	(Avg)	(Max)	(Real)
1	10/16/2018 8:10	0.000	0.000	0.000
2	10/16/2018 8:11	0.000	0.000	0.000
3	10/16/2018 8:12	0.000	0.002	0.000
4	10/16/2018 8:13	0.002	0.008	0.006
5	10/16/2018 8:14	0.005	0.010	0.010

6	10/16/2018 8:15	0.007	0.011	0.010
7	10/16/2018 8:16	0.021	0.033	0.033
8	10/16/2018 8:17	0.025	0.031	0.014
9	10/16/2018 8:18	0.019	0.025	0.022
10	10/16/2018 8:19	0.027	0.048	0.034
11	10/16/2018 8:20	0.039	0.058	0.040
12	10/16/2018 8:21	0.036	0.041	0.041
13	10/16/2018 8:22	0.038	0.046	0.037
14	10/16/2018 8:23	0.046	0.052	0.046
15	10/16/2018 8:24	0.043	0.047	0.044
16	10/16/2018 8:25	0.045	0.049	0.049
17	10/16/2018 8:26	0.048	0.055	0.049
18	10/16/2018 8:27	0.045	0.049	0.040
19	10/16/2018 8:28	0.045	0.050	0.050
20	10/16/2018 8:29	0.051	0.059	0.045
21	10/16/2018 8:30	0.039	0.043	0.042
22	10/16/2018 8:31	0.045	0.057	0.057
23	10/16/2018 8:32	0.046	0.060	0.034
24	10/16/2018 8:33	0.035	0.040	0.033
25	10/16/2018 8:34	0.033	0.036	0.033
26	10/16/2018 8:35	0.035	0.042	0.040
27	10/16/2018 8:36	0.041	0.047	0.036
28	10/16/2018 8:37	0.034	0.041	0.033
29	10/16/2018 8:38	0.032	0.037	0.032
30	10/16/2018 8:39	0.032	0.035	0.034
31	10/16/2018 8:40	0.035	0.045	0.043
32	10/16/2018 8:41	0.043	0.048	0.042
33	10/16/2018 8:42	0.043	0.050	0.050
34	10/16/2018 8:43	0.055	0.060	0.059
35	10/16/2018 8:44	0.052	0.060	0.048
36	10/16/2018 8:45	0.046	0.049	0.044
37	10/16/2018 8:46	0.048	0.052	0.049
38	10/16/2018 8:47	0.048	0.050	0.050
39	10/16/2018 8:48	0.047	0.051	0.047
40	10/16/2018 8:49	0.053	0.058	0.052
41	10/16/2018 8:50	0.053	0.057	0.051
42	10/16/2018 8:51	0.053	0.057	0.056
43	10/16/2018 8:52	0.057	0.061	0.058
44	10/16/2018 8:53	0.057	0.060	0.059
45	10/16/2018 8:54	0.058	0.060	0.059
46	10/16/2018 8:55	0.061	0.066	0.063
47	10/16/2018 8:56	0.060	0.063	0.060
48	10/16/2018 8:57	0.065	0.069	0.068
49	10/16/2018 8:58	0.065	0.070	0.064
50	10/16/2018 8:59	0.064	0.069	0.069
51	10/16/2018 9:00	0.070	0.074	0.071
52	10/16/2018 9:01	0.069	0.073	0.068

53	10/16/2018 9:02	0.067	0.072	0.069
54	10/16/2018 9:03	0.067	0.070	0.066
55	10/16/2018 9:04	0.067	0.072	0.069
56	10/16/2018 9:05	0.068	0.073	0.070
57	10/16/2018 9:06	0.072	0.077	0.072
58	10/16/2018 9:07	0.076	0.082	0.076
59	10/16/2018 9:08	0.075	0.079	0.079
60	10/16/2018 9:09	0.075	0.078	0.075
61	10/16/2018 9:10	0.077	0.080	0.079
62	10/16/2018 9:11	0.079	0.083	0.081
63	10/16/2018 9:12	0.082	0.094	0.078
64	10/16/2018 9:13	0.094	0.123	0.120
65	10/16/2018 9:14	0.098	0.117	0.079
66	10/16/2018 9:15	0.079	0.082	0.082
67	10/16/2018 9:16	0.080	0.084	0.082
68	10/16/2018 9:17	0.084	0.090	0.090
69	10/16/2018 9:18	0.086	0.090	0.088
70	10/16/2018 9:19	0.088	0.092	0.085
71	10/16/2018 9:20	0.090	0.093	0.091
72	10/16/2018 9:21	0.092	0.097	0.093
73	10/16/2018 9:22	0.094	0.097	0.097
74	10/16/2018 9:23	0.093	0.098	0.095
75	10/16/2018 9:24	0.095	0.100	0.093
76	10/16/2018 9:25	0.097	0.100	0.097
77	10/16/2018 9:26	0.098	0.105	0.096
78	10/16/2018 9:27	0.096	0.100	0.097
79	10/16/2018 9:28	0.098	0.101	0.097
80	10/16/2018 9:29	0.108	0.169	0.106
81	10/16/2018 9:30	0.103	0.108	0.108
82	10/16/2018 9:31	0.106	0.113	0.103
83	10/16/2018 9:32	0.104	0.108	0.104
84	10/16/2018 9:33	0.104	0.107	0.104
85	10/16/2018 9:34	0.104	0.109	0.102
86	10/16/2018 9:35	0.107	0.111	0.110
87	10/16/2018 9:36	0.109	0.114	0.110
88	10/16/2018 9:37	0.110	0.113	0.109
89	10/16/2018 9:38	0.109	0.114	0.107
90	10/16/2018 9:39	0.117	0.132	0.110
91	10/16/2018 9:40	0.110	0.115	0.113
92	10/16/2018 9:41	0.112	0.115	0.114
93	10/16/2018 9:42	0.112	0.116	0.110
94	10/16/2018 9:43	0.111	0.113	0.110
95	10/16/2018 9:44	0.112	0.115	0.115
96	10/16/2018 9:45	0.113	0.116	0.114
97	10/16/2018 9:46	0.110	0.115	0.113
98	10/16/2018 9:47	0.110	0.114	0.112
99	10/16/2018 9:48	0.113	0.116	0.113

100	10/16/2018 9:49	0.113	0.115	0.113
101	10/16/2018 9:50	0.115	0.119	0.116
102	10/16/2018 9:51	0.116	0.121	0.118
103	10/16/2018 9:52	0.117	0.121	0.115
104	10/16/2018 9:53	0.121	0.128	0.123
105	10/16/2018 9:54	0.126	0.133	0.121
106	10/16/2018 9:55	0.129	0.142	0.125
107	10/16/2018 9:56	0.119	0.128	0.123
108	10/16/2018 9:57	0.119	0.124	0.116
109	10/16/2018 9:58	0.119	0.122	0.120
110	10/16/2018 9:59	0.121	0.124	0.121
111	10/16/2018 10:00	0.119	0.123	0.117
112	10/16/2018 10:01	0.122	0.127	0.127
113	10/16/2018 10:02	0.139	0.171	0.141
114	10/16/2018 10:03	0.134	0.154	0.137
115	10/16/2018 10:04	0.128	0.139	0.125
116	10/16/2018 10:05	0.122	0.127	0.125
117	10/16/2018 10:06	0.125	0.128	0.124
118	10/16/2018 10:07	0.123	0.126	0.126
119	10/16/2018 10:08	0.129	0.134	0.128
120	10/16/2018 10:09	0.123	0.128	0.124
121	10/16/2018 10:10	0.127	0.135	0.123
122	10/16/2018 10:11	0.123	0.127	0.124
123	10/16/2018 10:12	0.122	0.126	0.123
124	10/16/2018 10:13	0.123	0.126	0.126
125	10/16/2018 10:14	0.124	0.128	0.124
126	10/16/2018 10:15	0.125	0.129	0.128
127	10/16/2018 10:16	0.126	0.130	0.127
128	10/16/2018 10:17	0.127	0.131	0.126
129	10/16/2018 10:18	0.127	0.131	0.129
130	10/16/2018 10:19	0.126	0.130	0.125
131	10/16/2018 10:20	0.128	0.132	0.132
132	10/16/2018 10:21	0.128	0.132	0.125
133	10/16/2018 10:22	0.128	0.131	0.129
134	10/16/2018 10:23	0.128	0.132	0.129
135	10/16/2018 10:24	0.131	0.136	0.132
136	10/16/2018 10:25	0.131	0.137	0.128
137	10/16/2018 10:26	0.131	0.133	0.131
138	10/16/2018 10:27	0.130	0.134	0.129
139	10/16/2018 10:28	0.131	0.135	0.132
140	10/16/2018 10:29	0.129	0.134	0.132
141	10/16/2018 10:30	0.132	0.135	0.134
142	10/16/2018 10:31	0.130	0.134	0.132
143	10/16/2018 10:32	0.130	0.134	0.127
144	10/16/2018 10:33	0.130	0.133	0.129
145	10/16/2018 10:34	0.131	0.135	0.133
146	10/16/2018 10:35	0.131	0.133	0.132

147	10/16/2018 10:36	0.129	0.135	0.128
148	10/16/2018 10:37	0.129	0.133	0.128
149	10/16/2018 10:38	0.125	0.129	0.125
150	10/16/2018 10:39	0.128	0.134	0.129
151	10/16/2018 10:40	0.127	0.131	0.126
152	10/16/2018 10:41	0.125	0.128	0.126
153	10/16/2018 10:42	0.127	0.130	0.126
154	10/16/2018 10:43	0.127	0.131	0.128
155	10/16/2018 10:44	0.125	0.129	0.124
156	10/16/2018 10:45	0.124	0.143	0.128
157	10/16/2018 10:46	0.131	0.168	0.168
158	10/16/2018 10:47	0.156	0.234	0.130
159	10/16/2018 10:48	0.128	0.133	0.127
160	10/16/2018 10:49	0.142	0.174	0.144
161	10/16/2018 10:50	0.138	0.162	0.126
162	10/16/2018 10:51	0.130	0.153	0.130
163	10/16/2018 10:52	0.128	0.137	0.124
164	10/16/2018 10:53	0.117	0.122	0.119
165	10/16/2018 10:54	0.120	0.140	0.140
166	10/16/2018 10:55	0.122	0.140	0.120
167	10/16/2018 10:56	0.122	0.127	0.121
168	10/16/2018 10:57	0.122	0.126	0.121
169	10/16/2018 10:58	0.125	0.157	0.157
170	10/16/2018 10:59	0.165	0.194	0.168
171	10/16/2018 11:00	0.151	0.217	0.170
172	10/16/2018 11:01	0.125	0.161	0.155
173	10/16/2018 11:02	0.133	0.156	0.125
174	10/16/2018 11:03	0.127	0.168	0.141
175	10/16/2018 11:04	0.121	0.133	0.125
176	10/16/2018 11:05	0.139	0.203	0.141
177	10/16/2018 11:06	0.152	0.179	0.130
178	10/16/2018 11:07	0.132	0.143	0.120
179	10/16/2018 11:08	0.118	0.124	0.123
180	10/16/2018 11:09	0.122	0.127	0.123
181	10/16/2018 11:10	0.135	0.176	0.130
182	10/16/2018 11:11	0.123	0.129	0.126
183	10/16/2018 11:12	0.125	0.131	0.131
184	10/16/2018 11:13	0.132	0.148	0.126
185	10/16/2018 11:14	0.129	0.134	0.128
186	10/16/2018 11:15	0.129	0.133	0.130
187	10/16/2018 11:16	0.131	0.138	0.134
188	10/16/2018 11:17	0.134	0.139	0.134
189	10/16/2018 11:18	0.132	0.141	0.126
190	10/16/2018 11:19	0.129	0.136	0.126
191	10/16/2018 11:20	0.138	0.231	0.227
192	10/16/2018 11:21	0.171	0.221	0.126
193	10/16/2018 11:22	0.126	0.131	0.128

194	10/16/2018 11:23	0.127	0.132	0.126
195	10/16/2018 11:24	0.127	0.130	0.127
196	10/16/2018 11:25	0.134	0.143	0.130
197	10/16/2018 11:26	0.132	0.138	0.133
198	10/16/2018 11:27	0.133	0.140	0.131
199	10/16/2018 11:28	0.130	0.135	0.127
200	10/16/2018 11:29	0.128	0.133	0.127
201	10/16/2018 11:30	0.137	0.147	0.134
202	10/16/2018 11:31	0.123	0.131	0.123
203	10/16/2018 11:32	0.129	0.141	0.141
204	10/16/2018 11:33	0.130	0.146	0.132
205	10/16/2018 11:34	0.134	0.141	0.132
206	10/16/2018 11:35	0.132	0.136	0.134
207	10/16/2018 11:36	0.137	0.174	0.138
208	10/16/2018 11:37	0.134	0.146	0.133
209	10/16/2018 11:38	0.124	0.131	0.125
210	10/16/2018 11:39	0.122	0.127	0.124
211	10/16/2018 11:40	0.124	0.129	0.125
212	10/16/2018 11:41	0.134	0.142	0.133
213	10/16/2018 11:42	0.131	0.145	0.128
214	10/16/2018 11:43	0.125	0.130	0.125
215	10/16/2018 11:44	0.123	0.129	0.128
216	10/16/2018 11:45	0.130	0.139	0.124
217	10/16/2018 11:46	0.126	0.130	0.126
218	10/16/2018 11:47	0.129	0.138	0.136
219	10/16/2018 11:48	0.132	0.137	0.131
220	10/16/2018 11:49	0.125	0.130	0.127
221	10/16/2018 11:50	0.123	0.127	0.122
222	10/16/2018 11:51	0.121	0.123	0.123
223	10/16/2018 11:52	0.124	0.130	0.129
224	10/16/2018 11:53	0.129	0.134	0.132
225	10/16/2018 11:54	0.132	0.136	0.133
226	10/16/2018 11:55	0.142	0.157	0.129
227	10/16/2018 11:56	0.127	0.133	0.133
228	10/16/2018 11:57	0.133	0.137	0.132
229	10/16/2018 11:58	0.137	0.146	0.140
230	10/16/2018 11:59	0.135	0.142	0.136
231	10/16/2018 12:00	0.139	0.147	0.135
232	10/16/2018 12:01	0.135	0.140	0.136
233	10/16/2018 12:02	0.150	0.182	0.144
234	10/16/2018 12:03	0.156	0.232	0.139
235	10/16/2018 12:04	0.155	0.191	0.183
236	10/16/2018 12:05	0.147	0.181	0.165
237	10/16/2018 12:06	0.188	0.226	0.185
238	10/16/2018 12:07	0.144	0.178	0.137
239	10/16/2018 12:08	0.142	0.149	0.142
240	10/16/2018 12:09	0.136	0.145	0.139

241	10/16/2018 12:10	0.141	0.147	0.143
242	10/16/2018 12:11	0.146	0.150	0.148
243	10/16/2018 12:12	0.149	0.152	0.151
244	10/16/2018 12:13	0.152	0.155	0.153
245	10/16/2018 12:14	0.152	0.155	0.152
246	10/16/2018 12:15	0.154	0.158	0.155
247	10/16/2018 12:16	0.156	0.160	0.154
248	10/16/2018 12:17	0.156	0.164	0.155
249	10/16/2018 12:18	0.159	0.165	0.162
250	10/16/2018 12:19	0.163	0.166	0.164
251	10/16/2018 12:20	0.165	0.168	0.167
252	10/16/2018 12:21	0.165	0.168	0.167
253	10/16/2018 12:22	0.167	0.171	0.170
254	10/16/2018 12:23	0.170	0.175	0.172
255	10/16/2018 12:24	0.173	0.175	0.174
256	10/16/2018 12:25	0.173	0.176	0.173
257	10/16/2018 12:26	0.171	0.176	0.169
258	10/16/2018 12:27	0.171	0.175	0.171
259	10/16/2018 12:28	0.172	0.176	0.172
260	10/16/2018 12:29	0.172	0.177	0.172
261	10/16/2018 12:30	0.174	0.180	0.170
262	10/16/2018 12:31	0.167	0.175	0.165
263	10/16/2018 12:32	0.164	0.169	0.168
264	10/16/2018 12:33	0.165	0.171	0.168
265	10/16/2018 12:34	0.161	0.170	0.158
266	10/16/2018 12:35	0.163	0.179	0.161
267	10/16/2018 12:36	0.156	0.166	0.155
268	10/16/2018 12:37	0.155	0.159	0.159
269	10/16/2018 12:38	0.160	0.166	0.163
270	10/16/2018 12:39	0.159	0.162	0.160
271	10/16/2018 12:40	0.160	0.166	0.159
272	10/16/2018 12:41	0.158	0.164	0.159
273	10/16/2018 12:42	0.167	0.182	0.161
274	10/16/2018 12:43	0.159	0.167	0.167
275	10/16/2018 12:44	0.155	0.171	0.152
276	10/16/2018 12:45	0.157	0.167	0.167
277	10/16/2018 12:46	0.153	0.166	0.149
278	10/16/2018 12:47	0.150	0.154	0.152
279	10/16/2018 12:48	0.152	0.155	0.153
280	10/16/2018 12:49	0.155	0.159	0.156
281	10/16/2018 12:50	0.156	0.159	0.156
282	10/16/2018 12:51	0.157	0.161	0.160
283	10/16/2018 12:52	0.159	0.167	0.158
284	10/16/2018 12:53	0.157	0.163	0.156
285	10/16/2018 12:54	0.158	0.162	0.159
286	10/16/2018 12:55	0.155	0.160	0.154
287	10/16/2018 12:56	0.154	0.157	0.154



288	10/16/2018 12:57	0.155	0.160	0.154
289	10/16/2018 12:58	0.155	0.159	0.155
290	10/16/2018 12:59	0.154	0.160	0.155
291	10/16/2018 13:00	0.151	0.156	0.152
292	10/16/2018 13:01	0.152	0.159	0.154
293	10/16/2018 13:02	0.149	0.154	0.150
294	10/16/2018 13:03	0.152	0.157	0.154
295	10/16/2018 13:04	0.156	0.167	0.162
296	10/16/2018 13:05	0.148	0.160	0.144
297	10/16/2018 13:06	0.146	0.154	0.151
298	10/16/2018 13:07	0.153	0.161	0.155
299	10/16/2018 13:08	0.153	0.161	0.146
300	10/16/2018 13:09	0.154	0.253	0.247
301	10/16/2018 13:10	0.165	0.237	0.149
302	10/16/2018 13:11	0.141	0.149	0.137
303	10/16/2018 13:12	0.136	0.140	0.137
304	10/16/2018 13:13	0.139	0.145	0.137
305	10/16/2018 13:14	0.141	0.150	0.145
306	10/16/2018 13:15	0.146	0.154	0.147
307	10/16/2018 13:16	0.137	0.145	0.137
308	10/16/2018 13:17	0.135	0.145	0.136
309	10/16/2018 13:18	0.135	0.140	0.134
310	10/16/2018 13:19	0.135	0.139	0.138
311	10/16/2018 13:20	0.137	0.140	0.136
312	10/16/2018 13:21	0.135	0.140	0.137
313	10/16/2018 13:22	0.141	0.150	0.133
314	10/16/2018 13:23	0.137	0.141	0.140
315	10/16/2018 13:24	0.136	0.140	0.137
316	10/16/2018 13:25	0.139	0.143	0.138
317	10/16/2018 13:26	0.140	0.143	0.141
318	10/16/2018 13:27	0.140	0.143	0.142
319	10/16/2018 13:28	0.137	0.142	0.138
320	10/16/2018 13:29	0.137	0.143	0.142
321	10/16/2018 13:30	0.138	0.144	0.138
322	10/16/2018 13:31	0.138	0.143	0.133
323	10/16/2018 13:32	0.136	0.147	0.131
324	10/16/2018 13:33	0.132	0.137	0.132
325	10/16/2018 13:34	0.130	0.134	0.129
326	10/16/2018 13:35	0.133	0.137	0.134
327	10/16/2018 13:36	0.136	0.148	0.133
328	10/16/2018 13:37	0.138	0.144	0.134
329	10/16/2018 13:38	0.130	0.133	0.131
330	10/16/2018 13:39	0.133	0.137	0.134
331	10/16/2018 13:40	0.136	0.139	0.133
332	10/16/2018 13:41	0.134	0.142	0.131
333	10/16/2018 13:42	0.133	0.139	0.133
334	10/16/2018 13:43	0.133	0.137	0.131

335	10/16/2018 13:44	0.133	0.139	0.136
336	10/16/2018 13:45	0.142	0.153	0.145
337	10/16/2018 13:46	0.136	0.145	0.141
338	10/16/2018 13:47	0.137	0.146	0.135
339	10/16/2018 13:48	0.137	0.145	0.145
340	10/16/2018 13:49	0.172	0.239	0.174
341	10/16/2018 13:50	0.194	0.238	0.137
342	10/16/2018 13:51	0.150	0.218	0.130
343	10/16/2018 13:52	0.130	0.139	0.139
344	10/16/2018 13:53	0.140	0.187	0.126
345	10/16/2018 13:54	0.137	0.179	0.147
346	10/16/2018 13:55	0.142	0.168	0.139
347	10/16/2018 13:56	0.128	0.134	0.130
348	10/16/2018 13:57	0.127	0.132	0.126
349	10/16/2018 13:58	0.127	0.132	0.129
350	10/16/2018 13:59	0.127	0.131	0.131
351	10/16/2018 14:00	0.130	0.141	0.140
352	10/16/2018 14:01	0.137	0.166	0.126
353	10/16/2018 14:02	0.127	0.131	0.131
354	10/16/2018 14:03	0.137	0.166	0.166
355	10/16/2018 14:04	0.154	0.205	0.153
356	10/16/2018 14:05	0.146	0.189	0.166
357	10/16/2018 14:06	0.138	0.180	0.122
358	10/16/2018 14:07	0.138	0.164	0.133
359	10/16/2018 14:08	0.125	0.131	0.127
360	10/16/2018 14:09	0.124	0.127	0.124
361	10/16/2018 14:10	0.126	0.128	0.128
362	10/16/2018 14:11	0.150	0.246	0.135
363	10/16/2018 14:12	0.140	0.156	0.135
364	10/16/2018 14:13	0.133	0.141	0.127
365	10/16/2018 14:14	0.124	0.128	0.123
366	10/16/2018 14:15	0.125	0.129	0.124
367	10/16/2018 14:16	0.123	0.126	0.125
368	10/16/2018 14:17	0.126	0.128	0.128
369	10/16/2018 14:18	0.124	0.129	0.126
370	10/16/2018 14:19	0.131	0.144	0.124
371	10/16/2018 14:20	0.132	0.167	0.146
372	10/16/2018 14:21	0.135	0.148	0.129
373	10/16/2018 14:22	0.128	0.135	0.126
374	10/16/2018 14:23	0.123	0.130	0.118
375	10/16/2018 14:24	0.121	0.124	0.123
376	10/16/2018 14:25	0.123	0.139	0.135
377	10/16/2018 14:26	0.139	0.149	0.126
378	10/16/2018 14:27	0.124	0.128	0.121
379	10/16/2018 14:28	0.122	0.129	0.125
380	10/16/2018 14:29	0.123	0.127	0.121
381	10/16/2018 14:30	0.124	0.136	0.131

382	10/16/2018 14:31	0.129	0.149	0.122
383	10/16/2018 14:32	0.126	0.135	0.127
384	10/16/2018 14:33	0.135	0.162	0.157
385	10/16/2018 14:34	0.133	0.182	0.124
386	10/16/2018 14:35	0.125	0.130	0.125
387	10/16/2018 14:36	0.124	0.127	0.124
388	10/16/2018 14:37	0.126	0.130	0.126
389	10/16/2018 14:38	0.127	0.130	0.128
390	10/16/2018 14:39	0.127	0.130	0.128
391	10/16/2018 14:40	0.132	0.150	0.150
392	10/16/2018 14:41	0.133	0.152	0.138
393	10/16/2018 14:42	0.135	0.148	0.128
394	10/16/2018 14:43	0.124	0.132	0.128
395	10/16/2018 14:44	0.124	0.127	0.123
396	10/16/2018 14:45	0.124	0.129	0.124
397	10/16/2018 14:46	0.126	0.140	0.129
398	10/16/2018 14:47	0.124	0.130	0.122
399	10/16/2018 14:48	0.125	0.131	0.130
400	10/16/2018 14:49	0.130	0.136	0.129
401	10/16/2018 14:50	0.129	0.132	0.128
402	10/16/2018 14:51	0.127	0.130	0.130
403	10/16/2018 14:52	0.128	0.131	0.130
404	10/16/2018 14:53	0.130	0.135	0.129
405	10/16/2018 14:54	0.131	0.135	0.133
406	10/16/2018 14:55	0.133	0.136	0.133
407	10/16/2018 14:56	0.130	0.133	0.131
408	10/16/2018 14:57	0.133	0.136	0.132
409	10/16/2018 14:58	0.130	0.134	0.128
410	10/16/2018 14:59	0.128	0.133	0.133
411	10/16/2018 15:00	0.128	0.134	0.127
412	10/16/2018 15:01	0.131	0.135	0.133

=====  
18/12/10 09:00  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-907579  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
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Site ID         12345678  
User ID         12345678  
-----

Begin           2018/12/10 09:00:00  
End             2018/12/10 14:27:00  
Sample Period(s) 60  
Number of Records 328  
-----

Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/12/10 07:45  
Peak           0.000  
Min             0.000  
Average         0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	12/10/2018 9:00:00	0.000	0.000	0.000
2	12/10/2018 9:01:00	0.000	0.000	0.000
3	12/10/2018 9:02:00	0.000	0.000	0.000
4	12/10/2018 9:03:00	0.000	0.000	0.000
5	12/10/2018 9:04:00	0.000	0.000	0.000
6	12/10/2018 9:05:00	0.000	0.000	0.000

7	12/10/2018	9:06:00	0.000	0.000	0.000
8	12/10/2018	9:07:00	0.000	0.000	0.000
9	12/10/2018	9:08:00	0.000	0.000	0.000
10	12/10/2018	9:09:00	0.000	0.000	0.000
11	12/10/2018	9:10:00	0.000	0.000	0.000
12	12/10/2018	9:11:00	0.000	0.000	0.000
13	12/10/2018	9:12:00	0.000	0.000	0.000
14	12/10/2018	9:13:00	0.000	0.000	0.000
15	12/10/2018	9:14:00	0.000	0.000	0.000
16	12/10/2018	9:15:00	0.000	0.000	0.000
17	12/10/2018	9:16:00	0.000	0.000	0.000
18	12/10/2018	9:17:00	0.000	0.000	0.000
19	12/10/2018	9:18:00	0.000	0.000	0.000
20	12/10/2018	9:19:00	0.000	0.000	0.000
21	12/10/2018	9:20:00	0.000	0.000	0.000
22	12/10/2018	9:21:00	0.000	0.000	0.000
23	12/10/2018	9:22:00	0.000	0.000	0.000
24	12/10/2018	9:23:00	0.000	0.000	0.000
25	12/10/2018	9:24:00	0.000	0.000	0.000
26	12/10/2018	9:25:00	0.000	0.000	0.000
27	12/10/2018	9:26:00	0.000	0.000	0.000
28	12/10/2018	9:27:00	0.000	0.000	0.000
29	12/10/2018	9:28:00	0.000	0.000	0.000
30	12/10/2018	9:29:00	0.000	0.000	0.000
31	12/10/2018	9:30:00	0.000	0.000	0.000
32	12/10/2018	9:31:00	0.000	0.000	0.000
33	12/10/2018	9:32:00	0.000	0.000	0.000
34	12/10/2018	9:33:00	0.000	0.000	0.000
35	12/10/2018	9:34:00	0.000	0.000	0.000
36	12/10/2018	9:35:00	0.000	0.000	0.000
37	12/10/2018	9:36:00	0.000	0.000	0.000
38	12/10/2018	9:37:00	0.000	0.000	0.000
39	12/10/2018	9:38:00	0.000	0.000	0.000
40	12/10/2018	9:39:00	0.000	0.000	0.000
41	12/10/2018	9:40:00	0.000	0.000	0.000
42	12/10/2018	9:41:00	0.000	0.000	0.000
43	12/10/2018	9:42:00	0.000	0.000	0.000
44	12/10/2018	9:43:00	0.000	0.000	0.000
45	12/10/2018	9:44:00	0.000	0.000	0.000
46	12/10/2018	9:45:00	0.000	0.000	0.000
47	12/10/2018	9:46:00	0.000	0.000	0.000
48	12/10/2018	9:47:00	0.000	0.000	0.000
49	12/10/2018	9:48:00	0.000	0.000	0.000
50	12/10/2018	9:49:00	0.000	0.000	0.000
51	12/10/2018	9:50:00	0.000	0.000	0.000
52	12/10/2018	9:51:00	0.000	0.000	0.000
53	12/10/2018	9:52:00	0.000	0.000	0.000

54	12/10/2018	9:53:00	0.000	0.000	0.000
55	12/10/2018	9:54:00	0.000	0.000	0.000
56	12/10/2018	9:55:00	0.000	0.000	0.000
57	12/10/2018	9:56:00	0.000	0.000	0.000
58	12/10/2018	9:57:00	0.000	0.000	0.000
59	12/10/2018	9:58:00	0.000	0.000	0.000
60	12/10/2018	9:59:00	0.000	0.000	0.000
61	12/10/2018	10:00:00	0.000	0.000	0.000
62	12/10/2018	10:01:00	0.000	0.000	0.000
63	12/10/2018	10:02:00	0.000	0.000	0.000
64	12/10/2018	10:03:00	0.000	0.000	0.000
65	12/10/2018	10:04:00	0.000	0.000	0.000
66	12/10/2018	10:05:00	0.000	0.000	0.000
67	12/10/2018	10:06:00	0.000	0.000	0.000
68	12/10/2018	10:07:00	0.000	0.000	0.000
69	12/10/2018	10:08:00	0.000	0.000	0.000
70	12/10/2018	10:09:00	0.000	0.000	0.000
71	12/10/2018	10:10:00	0.000	0.000	0.000
72	12/10/2018	10:11:00	0.000	0.000	0.000
73	12/10/2018	10:12:00	0.000	0.000	0.000
74	12/10/2018	10:13:00	0.000	0.000	0.000
75	12/10/2018	10:14:00	0.000	0.000	0.000
76	12/10/2018	10:15:00	0.000	0.000	0.000
77	12/10/2018	10:16:00	0.000	0.000	0.000
78	12/10/2018	10:17:00	0.000	0.000	0.000
79	12/10/2018	10:18:00	0.000	0.000	0.000
80	12/10/2018	10:19:00	0.000	0.000	0.000
81	12/10/2018	10:20:00	0.000	0.000	0.000
82	12/10/2018	10:21:00	0.000	0.000	0.000
83	12/10/2018	10:22:00	0.000	0.000	0.000
84	12/10/2018	10:23:00	0.000	0.000	0.000
85	12/10/2018	10:24:00	0.000	0.000	0.000
86	12/10/2018	10:25:00	0.000	0.000	0.000
87	12/10/2018	10:26:00	0.000	0.000	0.000
88	12/10/2018	10:27:00	0.000	0.000	0.000
89	12/10/2018	10:28:00	0.000	0.000	0.000
90	12/10/2018	10:29:00	0.000	0.000	0.000
91	12/10/2018	10:30:00	0.000	0.000	0.000
92	12/10/2018	10:31:00	0.000	0.000	0.000
93	12/10/2018	10:32:00	0.000	0.000	0.000
94	12/10/2018	10:33:00	0.000	0.000	0.000
95	12/10/2018	10:34:00	0.000	0.000	0.000
96	12/10/2018	10:35:00	0.000	0.000	0.000
97	12/10/2018	10:36:00	0.000	0.000	0.000
98	12/10/2018	10:37:00	0.000	0.000	0.000
99	12/10/2018	10:38:00	0.000	0.000	0.000
100	12/10/2018	10:39:00	0.000	0.000	0.000

101	12/10/2018	10:40:00	0.000	0.000	0.000
102	12/10/2018	10:41:00	0.000	0.000	0.000
103	12/10/2018	10:42:00	0.000	0.000	0.000
104	12/10/2018	10:43:00	0.000	0.000	0.000
105	12/10/2018	10:44:00	0.000	0.000	0.000
106	12/10/2018	10:45:00	0.000	0.000	0.000
107	12/10/2018	10:46:00	0.000	0.000	0.000
108	12/10/2018	10:47:00	0.000	0.000	0.000
109	12/10/2018	10:48:00	0.000	0.000	0.000
110	12/10/2018	10:49:00	0.000	0.000	0.000
111	12/10/2018	10:50:00	0.000	0.000	0.000
112	12/10/2018	10:51:00	0.000	0.000	0.000
113	12/10/2018	10:52:00	0.000	0.000	0.000
114	12/10/2018	10:53:00	0.000	0.000	0.000
115	12/10/2018	10:54:00	0.000	0.000	0.000
116	12/10/2018	10:55:00	0.000	0.000	0.000
117	12/10/2018	10:56:00	0.000	0.000	0.000
118	12/10/2018	10:57:00	0.000	0.000	0.000
119	12/10/2018	10:58:00	0.000	0.000	0.000
120	12/10/2018	10:59:00	0.000	0.000	0.000
121	12/10/2018	11:00:00	0.000	0.000	0.000
122	12/10/2018	11:01:00	0.000	0.000	0.000
123	12/10/2018	11:02:00	0.000	0.000	0.000
124	12/10/2018	11:03:00	0.000	0.000	0.000
125	12/10/2018	11:04:00	0.000	0.000	0.000
126	12/10/2018	11:05:00	0.000	0.000	0.000
127	12/10/2018	11:06:00	0.000	0.000	0.000
128	12/10/2018	11:07:00	0.000	0.000	0.000
129	12/10/2018	11:08:00	0.000	0.000	0.000
130	12/10/2018	11:09:00	0.000	0.000	0.000
131	12/10/2018	11:10:00	0.000	0.000	0.000
132	12/10/2018	11:11:00	0.000	0.000	0.000
133	12/10/2018	11:12:00	0.000	0.000	0.000
134	12/10/2018	11:13:00	0.000	0.000	0.000
135	12/10/2018	11:14:00	0.000	0.000	0.000
136	12/10/2018	11:15:00	0.000	0.000	0.000
137	12/10/2018	11:16:00	0.000	0.000	0.000
138	12/10/2018	11:17:00	0.000	0.000	0.000
139	12/10/2018	11:18:00	0.000	0.000	0.000
140	12/10/2018	11:19:00	0.000	0.000	0.000
141	12/10/2018	11:20:00	0.000	0.000	0.000
142	12/10/2018	11:21:00	0.000	0.000	0.000
143	12/10/2018	11:22:00	0.000	0.000	0.000
144	12/10/2018	11:23:00	0.000	0.000	0.000
145	12/10/2018	11:24:00	0.000	0.000	0.000
146	12/10/2018	11:25:00	0.000	0.000	0.000
147	12/10/2018	11:26:00	0.000	0.000	0.000

148	12/10/2018	11:27:00	0.000	0.000	0.000
149	12/10/2018	11:28:00	0.000	0.000	0.000
150	12/10/2018	11:29:00	0.000	0.000	0.000
151	12/10/2018	11:30:00	0.000	0.000	0.000
152	12/10/2018	11:31:00	0.000	0.000	0.000
153	12/10/2018	11:32:00	0.000	0.000	0.000
154	12/10/2018	11:33:00	0.000	0.000	0.000
155	12/10/2018	11:34:00	0.000	0.000	0.000
156	12/10/2018	11:35:00	0.000	0.000	0.000
157	12/10/2018	11:36:00	0.000	0.000	0.000
158	12/10/2018	11:37:00	0.000	0.000	0.000
159	12/10/2018	11:38:00	0.000	0.000	0.000
160	12/10/2018	11:39:00	0.000	0.000	0.000
161	12/10/2018	11:40:00	0.000	0.000	0.000
162	12/10/2018	11:41:00	0.000	0.000	0.000
163	12/10/2018	11:42:00	0.000	0.000	0.000
164	12/10/2018	11:43:00	0.000	0.000	0.000
165	12/10/2018	11:44:00	0.000	0.000	0.000
166	12/10/2018	11:45:00	0.000	0.000	0.000
167	12/10/2018	11:46:00	0.000	0.000	0.000
168	12/10/2018	11:47:00	0.000	0.000	0.000
169	12/10/2018	11:48:00	0.000	0.000	0.000
170	12/10/2018	11:49:00	0.000	0.000	0.000
171	12/10/2018	11:50:00	0.000	0.000	0.000
172	12/10/2018	11:51:00	0.000	0.000	0.000
173	12/10/2018	11:52:00	0.000	0.000	0.000
174	12/10/2018	11:53:00	0.000	0.000	0.000
175	12/10/2018	11:54:00	0.000	0.000	0.000
176	12/10/2018	11:55:00	0.000	0.000	0.000
177	12/10/2018	11:56:00	0.000	0.000	0.000
178	12/10/2018	11:57:00	0.000	0.000	0.000
179	12/10/2018	11:58:00	0.000	0.000	0.000
180	12/10/2018	11:59:00	0.000	0.000	0.000
181	12/10/2018	12:00:00	0.000	0.000	0.000
182	12/10/2018	12:01:00	0.000	0.000	0.000
183	12/10/2018	12:02:00	0.000	0.000	0.000
184	12/10/2018	12:03:00	0.000	0.000	0.000
185	12/10/2018	12:04:00	0.000	0.000	0.000
186	12/10/2018	12:05:00	0.000	0.000	0.000
187	12/10/2018	12:06:00	0.000	0.000	0.000
188	12/10/2018	12:07:00	0.000	0.000	0.000
189	12/10/2018	12:08:00	0.000	0.000	0.000
190	12/10/2018	12:09:00	0.000	0.000	0.000
191	12/10/2018	12:10:00	0.000	0.000	0.000
192	12/10/2018	12:11:00	0.000	0.000	0.000
193	12/10/2018	12:12:00	0.000	0.000	0.000
194	12/10/2018	12:13:00	0.000	0.000	0.000



195	12/10/2018	12:14:00	0.000	0.000	0.000
196	12/10/2018	12:15:00	0.000	0.000	0.000
197	12/10/2018	12:16:00	0.000	0.000	0.000
198	12/10/2018	12:17:00	0.000	0.000	0.000
199	12/10/2018	12:18:00	0.000	0.000	0.000
200	12/10/2018	12:19:00	0.000	0.000	0.000
201	12/10/2018	12:20:00	0.000	0.000	0.000
202	12/10/2018	12:21:00	0.000	0.000	0.000
203	12/10/2018	12:22:00	0.000	0.000	0.000
204	12/10/2018	12:23:00	0.000	0.000	0.000
205	12/10/2018	12:24:00	0.000	0.000	0.000
206	12/10/2018	12:25:00	0.000	0.000	0.000
207	12/10/2018	12:26:00	0.000	0.000	0.000
208	12/10/2018	12:27:00	0.000	0.000	0.000
209	12/10/2018	12:28:00	0.000	0.000	0.000
210	12/10/2018	12:29:00	0.000	0.000	0.000
211	12/10/2018	12:30:00	0.000	0.000	0.000
212	12/10/2018	12:31:00	0.000	0.000	0.000
213	12/10/2018	12:32:00	0.000	0.000	0.000
214	12/10/2018	12:33:00	0.000	0.000	0.000
215	12/10/2018	12:34:00	0.000	0.000	0.000
216	12/10/2018	12:35:00	0.000	0.000	0.000
217	12/10/2018	12:36:00	0.000	0.000	0.000
218	12/10/2018	12:37:00	0.000	0.000	0.000
219	12/10/2018	12:38:00	0.000	0.000	0.000
220	12/10/2018	12:39:00	0.000	0.000	0.000
221	12/10/2018	12:40:00	0.000	0.000	0.000
222	12/10/2018	12:41:00	0.000	0.000	0.000
223	12/10/2018	12:42:00	0.000	0.000	0.000
224	12/10/2018	12:43:00	0.000	0.000	0.000
225	12/10/2018	12:44:00	0.000	0.000	0.000
226	12/10/2018	12:45:00	0.000	0.000	0.000
227	12/10/2018	12:46:00	0.000	0.000	0.000
228	12/10/2018	12:47:00	0.000	0.000	0.000
229	12/10/2018	12:48:00	0.000	0.000	0.000
230	12/10/2018	12:49:00	0.000	0.000	0.000
231	12/10/2018	12:50:00	0.000	0.000	0.000
232	12/10/2018	12:51:00	0.000	0.000	0.000
233	12/10/2018	12:52:00	0.000	0.000	0.000
234	12/10/2018	12:53:00	0.000	0.000	0.000
235	12/10/2018	12:54:00	0.000	0.000	0.000
236	12/10/2018	12:55:00	0.000	0.000	0.000
237	12/10/2018	12:56:00	0.000	0.000	0.000
238	12/10/2018	12:57:00	0.000	0.000	0.000
239	12/10/2018	12:58:00	0.000	0.000	0.000
240	12/10/2018	12:59:00	0.000	0.000	0.000
241	12/10/2018	13:00:00	0.000	0.000	0.000

242	12/10/2018	13:01:00	0.000	0.000	0.000
243	12/10/2018	13:02:00	0.000	0.000	0.000
244	12/10/2018	13:03:00	0.000	0.000	0.000
245	12/10/2018	13:04:00	0.000	0.000	0.000
246	12/10/2018	13:05:00	0.000	0.000	0.000
247	12/10/2018	13:06:00	0.000	0.000	0.000
248	12/10/2018	13:07:00	0.000	0.000	0.000
249	12/10/2018	13:08:00	0.000	0.000	0.000
250	12/10/2018	13:09:00	0.000	0.000	0.000
251	12/10/2018	13:10:00	0.000	0.000	0.000
252	12/10/2018	13:11:00	0.000	0.000	0.000
253	12/10/2018	13:12:00	0.000	0.000	0.000
254	12/10/2018	13:13:00	0.000	0.000	0.000
255	12/10/2018	13:14:00	0.000	0.000	0.000
256	12/10/2018	13:15:00	0.000	0.000	0.000
257	12/10/2018	13:16:00	0.000	0.000	0.000
258	12/10/2018	13:17:00	0.000	0.000	0.000
259	12/10/2018	13:18:00	0.000	0.000	0.000
260	12/10/2018	13:19:00	0.000	0.000	0.000
261	12/10/2018	13:20:00	0.000	0.000	0.000
262	12/10/2018	13:21:00	0.000	0.000	0.000
263	12/10/2018	13:22:00	0.000	0.000	0.000
264	12/10/2018	13:23:00	0.000	0.000	0.000
265	12/10/2018	13:24:00	0.000	0.000	0.000
266	12/10/2018	13:25:00	0.000	0.000	0.000
267	12/10/2018	13:26:00	0.000	0.000	0.000
268	12/10/2018	13:27:00	0.000	0.000	0.000
269	12/10/2018	13:28:00	0.000	0.000	0.000
270	12/10/2018	13:29:00	0.000	0.000	0.000
271	12/10/2018	13:30:00	0.000	0.000	0.000
272	12/10/2018	13:31:00	0.000	0.000	0.000
273	12/10/2018	13:32:00	0.000	0.000	0.000
274	12/10/2018	13:33:00	0.000	0.000	0.000
275	12/10/2018	13:34:00	0.000	0.000	0.000
276	12/10/2018	13:35:00	0.000	0.000	0.000
277	12/10/2018	13:36:00	0.000	0.000	0.000
278	12/10/2018	13:37:00	0.000	0.000	0.000
279	12/10/2018	13:38:00	0.000	0.000	0.000
280	12/10/2018	13:39:00	0.000	0.000	0.000
281	12/10/2018	13:40:00	0.000	0.000	0.000
282	12/10/2018	13:41:00	0.000	0.000	0.000
283	12/10/2018	13:42:00	0.000	0.000	0.000
284	12/10/2018	13:43:00	0.000	0.000	0.000
285	12/10/2018	13:44:00	0.000	0.000	0.000
286	12/10/2018	13:45:00	0.000	0.000	0.000
287	12/10/2018	13:46:00	0.000	0.000	0.000
288	12/10/2018	13:47:00	0.000	0.000	0.000

289	12/10/2018	13:48:00	0.000	0.000	0.000
290	12/10/2018	13:49:00	0.000	0.000	0.000
291	12/10/2018	13:50:00	0.000	0.000	0.000
292	12/10/2018	13:51:00	0.000	0.000	0.000
293	12/10/2018	13:52:00	0.000	0.000	0.000
294	12/10/2018	13:53:00	0.000	0.000	0.000
295	12/10/2018	13:54:00	0.000	0.000	0.000
296	12/10/2018	13:55:00	0.000	0.000	0.000
297	12/10/2018	13:56:00	0.000	0.000	0.000
298	12/10/2018	13:57:00	0.000	0.000	0.000
299	12/10/2018	13:58:00	0.000	0.000	0.000
300	12/10/2018	13:59:00	0.000	0.000	0.000
301	12/10/2018	14:00:00	0.000	0.000	0.000
302	12/10/2018	14:01:00	0.000	0.000	0.000
303	12/10/2018	14:02:00	0.000	0.000	0.000
304	12/10/2018	14:03:00	0.000	0.000	0.000
305	12/10/2018	14:04:00	0.000	0.000	0.000
306	12/10/2018	14:05:00	0.000	0.000	0.000
307	12/10/2018	14:06:00	0.000	0.000	0.000
308	12/10/2018	14:07:00	0.000	0.000	0.000
309	12/10/2018	14:08:00	0.000	0.000	0.000
310	12/10/2018	14:09:00	0.000	0.000	0.000
311	12/10/2018	14:10:00	0.000	0.000	0.000
312	12/10/2018	14:11:00	0.000	0.000	0.000
313	12/10/2018	14:12:00	0.000	0.000	0.000
314	12/10/2018	14:13:00	0.000	0.000	0.000
315	12/10/2018	14:14:00	0.000	0.000	0.000
316	12/10/2018	14:15:00	0.000	0.000	0.000
317	12/10/2018	14:16:00	0.000	0.000	0.000
318	12/10/2018	14:17:00	0.000	0.000	0.000
319	12/10/2018	14:18:00	0.000	0.000	0.000
320	12/10/2018	14:19:00	0.000	0.000	0.000
321	12/10/2018	14:20:00	0.000	0.000	0.000
322	12/10/2018	14:21:00	0.000	0.000	0.000
323	12/10/2018	14:22:00	0.000	0.000	0.000
324	12/10/2018	14:23:00	0.000	0.000	0.000
325	12/10/2018	14:24:00	0.000	0.000	0.000
326	12/10/2018	14:25:00	0.000	0.000	0.000
327	12/10/2018	14:26:00	0.000	0.000	0.000
328	12/10/2018	14:27:00	0.000	0.000	0.000

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18/12/11 07:50  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-907579  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type    Avg; Max; Real  
Datalog Mode    Continuous  
Datalog Type    Auto  
Diagnostic Mode  No  
Stop Reason     Power Down  
-----

Site ID         12345678  
User ID         12345678  
-----

Begin           2018/12/11 07:53:00  
End             2018/12/11 15:10:00  
Sample Period(s) 60  
Number of Records 436  
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Sensor         VOC(ppm)  
Span           100.000  
Span 2         N/A  
Low Alarm      50.000  
High Alarm     100.000  
Over Alarm     15000.000  
STEL Alarm     25.000  
TWA Alarm      10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/12/11 07:40  
Peak           0.000  
Min            0.000  
Average        0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	12/11/2018 7:53:00	0.000	0.000	0.000
2	12/11/2018 7:54:00	0.000	0.000	0.000
3	12/11/2018 7:55:00	0.000	0.000	0.000
4	12/11/2018 7:56:00	0.000	0.000	0.000
5	12/11/2018 7:57:00	0.000	0.000	0.000
6	12/11/2018 7:58:00	0.000	0.000	0.000

7	12/11/2018	7:59:00	0.000	0.000	0.000
8	12/11/2018	8:00:00	0.000	0.000	0.000
9	12/11/2018	8:01:00	0.000	0.000	0.000
10	12/11/2018	8:02:00	0.000	0.000	0.000
11	12/11/2018	8:03:00	0.000	0.000	0.000
12	12/11/2018	8:04:00	0.000	0.000	0.000
13	12/11/2018	8:05:00	0.000	0.000	0.000
14	12/11/2018	8:06:00	0.000	0.000	0.000
15	12/11/2018	8:07:00	0.000	0.000	0.000
16	12/11/2018	8:08:00	0.000	0.000	0.000
17	12/11/2018	8:09:00	0.000	0.000	0.000
18	12/11/2018	8:10:00	0.000	0.000	0.000
19	12/11/2018	8:11:00	0.000	0.000	0.000
20	12/11/2018	8:12:00	0.000	0.000	0.000
21	12/11/2018	8:13:00	0.000	0.000	0.000
22	12/11/2018	8:14:00	0.000	0.000	0.000
23	12/11/2018	8:15:00	0.000	0.000	0.000
24	12/11/2018	8:16:00	0.000	0.000	0.000
25	12/11/2018	8:17:00	0.000	0.000	0.000
26	12/11/2018	8:18:00	0.000	0.000	0.000
27	12/11/2018	8:19:00	0.000	0.000	0.000
28	12/11/2018	8:20:00	0.000	0.000	0.000
29	12/11/2018	8:21:00	0.000	0.000	0.000
30	12/11/2018	8:22:00	0.000	0.000	0.000
31	12/11/2018	8:23:00	0.000	0.000	0.000
32	12/11/2018	8:24:00	0.000	0.000	0.000
33	12/11/2018	8:25:00	0.000	0.000	0.000
34	12/11/2018	8:26:00	0.000	0.000	0.000
35	12/11/2018	8:27:00	0.000	0.000	0.000
36	12/11/2018	8:28:00	0.000	0.000	0.000
37	12/11/2018	8:29:00	0.000	0.000	0.000
38	12/11/2018	8:30:00	0.000	0.000	0.000
39	12/11/2018	8:31:00	0.000	0.000	0.000
40	12/11/2018	8:32:00	0.000	0.000	0.000
41	12/11/2018	8:33:00	0.000	0.000	0.000
42	12/11/2018	8:34:00	0.000	0.000	0.000
43	12/11/2018	8:35:00	0.000	0.000	0.000
44	12/11/2018	8:36:00	0.000	0.000	0.000
45	12/11/2018	8:37:00	0.000	0.000	0.000
46	12/11/2018	8:38:00	0.000	0.000	0.000
47	12/11/2018	8:39:00	0.000	0.000	0.000
48	12/11/2018	8:40:00	0.000	0.000	0.000
49	12/11/2018	8:41:00	0.000	0.000	0.000
50	12/11/2018	8:42:00	0.000	0.000	0.000
51	12/11/2018	8:43:00	0.000	0.000	0.000
52	12/11/2018	8:44:00	0.000	0.000	0.000
53	12/11/2018	8:45:00	0.000	0.000	0.000

54	12/11/2018	8:46:00	0.000	0.000	0.000
55	12/11/2018	8:47:00	0.000	0.000	0.000
56	12/11/2018	8:48:00	0.000	0.000	0.000
57	12/11/2018	8:49:00	0.000	0.000	0.000
58	12/11/2018	8:50:00	0.000	0.000	0.000
59	12/11/2018	8:51:00	0.000	0.000	0.000
60	12/11/2018	8:52:00	0.000	0.000	0.000
61	12/11/2018	8:53:00	0.000	0.000	0.000
62	12/11/2018	8:54:00	0.000	0.000	0.000
63	12/11/2018	8:55:00	0.000	0.000	0.000
64	12/11/2018	8:56:00	0.000	0.000	0.000
65	12/11/2018	8:57:00	0.000	0.000	0.000
66	12/11/2018	8:58:00	0.000	0.000	0.000
67	12/11/2018	8:59:00	0.000	0.000	0.000
68	12/11/2018	9:00:00	0.000	0.000	0.000
69	12/11/2018	9:01:00	0.000	0.000	0.000
70	12/11/2018	9:02:00	0.000	0.000	0.000
71	12/11/2018	9:03:00	0.000	0.000	0.000
72	12/11/2018	9:04:00	0.000	0.000	0.000
73	12/11/2018	9:05:00	0.000	0.000	0.000
74	12/11/2018	9:06:00	0.000	0.000	0.000
75	12/11/2018	9:07:00	0.000	0.000	0.000
76	12/11/2018	9:08:00	0.000	0.000	0.000
77	12/11/2018	9:09:00	0.000	0.000	0.000
78	12/11/2018	9:10:00	0.000	0.000	0.000
79	12/11/2018	9:11:00	0.000	0.000	0.000
80	12/11/2018	9:12:00	0.000	0.000	0.000
81	12/11/2018	9:13:00	0.000	0.000	0.000
82	12/11/2018	9:14:00	0.000	0.000	0.000
83	12/11/2018	9:15:00	0.000	0.000	0.000
84	12/11/2018	9:16:00	0.000	0.000	0.000
85	12/11/2018	9:17:00	0.000	0.000	0.000
86	12/11/2018	9:18:00	0.000	0.000	0.000
87	12/11/2018	9:19:00	0.000	0.000	0.000
88	12/11/2018	9:20:00	0.000	0.000	0.000
89	12/11/2018	9:21:00	0.000	0.000	0.000
90	12/11/2018	9:22:00	0.000	0.000	0.000
91	12/11/2018	9:23:00	0.000	0.000	0.000
92	12/11/2018	9:24:00	0.000	0.000	0.000
93	12/11/2018	9:25:00	0.000	0.000	0.000
94	12/11/2018	9:26:00	0.000	0.000	0.000
95	12/11/2018	9:27:00	0.000	0.000	0.000
96	12/11/2018	9:28:00	0.000	0.000	0.000
97	12/11/2018	9:29:00	0.000	0.000	0.000
98	12/11/2018	9:30:00	0.000	0.000	0.000
99	12/11/2018	9:31:00	0.000	0.000	0.000
100	12/11/2018	9:32:00	0.000	0.000	0.000

101	12/11/2018	9:33:00	0.000	0.000	0.000
102	12/11/2018	9:34:00	0.000	0.000	0.000
103	12/11/2018	9:35:00	0.000	0.000	0.000
104	12/11/2018	9:36:00	0.000	0.000	0.000
105	12/11/2018	9:37:00	0.000	0.000	0.000
106	12/11/2018	9:38:00	0.000	0.000	0.000
107	12/11/2018	9:39:00	0.000	0.000	0.000
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112	12/11/2018	9:45:00	0.000	0.000	0.000
113	12/11/2018	9:46:00	0.000	0.000	0.000
114	12/11/2018	9:47:00	0.000	0.000	0.000
115	12/11/2018	9:48:00	0.000	0.000	0.000
116	12/11/2018	9:49:00	0.000	0.000	0.000
117	12/11/2018	9:50:00	0.000	0.000	0.000
118	12/11/2018	9:51:00	0.000	0.000	0.000
119	12/11/2018	9:52:00	0.000	0.000	0.000
120	12/11/2018	9:53:00	0.000	0.000	0.000
121	12/11/2018	9:54:00	0.000	0.000	0.000
122	12/11/2018	9:55:00	0.000	0.000	0.000
123	12/11/2018	9:56:00	0.000	0.000	0.000
124	12/11/2018	9:57:00	0.000	0.000	0.000
125	12/11/2018	9:58:00	0.000	0.000	0.000
126	12/11/2018	9:59:00	0.000	0.000	0.000
127	12/11/2018	10:00:00	0.000	0.000	0.000
128	12/11/2018	10:01:00	0.000	0.000	0.000
129	12/11/2018	10:02:00	0.000	0.000	0.000
130	12/11/2018	10:03:00	0.000	0.000	0.000
131	12/11/2018	10:04:00	0.000	0.000	0.000
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140	12/11/2018	10:13:00	0.000	0.000	0.000
141	12/11/2018	10:14:00	0.000	0.000	0.000
142	12/11/2018	10:15:00	0.000	0.000	0.000
143	12/11/2018	10:16:00	0.000	0.000	0.000
144	12/11/2018	10:17:00	0.000	0.000	0.000
145	12/11/2018	10:18:00	0.000	0.000	0.000
146	12/11/2018	10:19:00	0.000	0.000	0.000
147	12/11/2018	10:20:00	0.000	0.000	0.000

148	12/11/2018	10:21:00	0.000	0.000	0.000
149	12/11/2018	10:22:00	0.000	0.000	0.000
150	12/11/2018	10:23:00	0.000	0.000	0.000
151	12/11/2018	10:24:00	0.000	0.000	0.000
152	12/11/2018	10:25:00	0.000	0.000	0.000
153	12/11/2018	10:26:00	0.000	0.000	0.000
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158	12/11/2018	10:31:00	0.000	0.000	0.000
159	12/11/2018	10:32:00	0.000	0.000	0.000
160	12/11/2018	10:33:00	0.000	0.000	0.000
161	12/11/2018	10:34:00	0.000	0.000	0.000
162	12/11/2018	10:35:00	0.000	0.000	0.000
163	12/11/2018	10:36:00	0.000	0.000	0.000
164	12/11/2018	10:37:00	0.000	0.000	0.000
165	12/11/2018	10:38:00	0.000	0.000	0.000
166	12/11/2018	10:39:00	0.000	0.000	0.000
167	12/11/2018	10:40:00	0.000	0.000	0.000
168	12/11/2018	10:41:00	0.000	0.000	0.000
169	12/11/2018	10:42:00	0.000	0.000	0.000
170	12/11/2018	10:43:00	0.000	0.000	0.000
171	12/11/2018	10:44:00	0.000	0.000	0.000
172	12/11/2018	10:45:00	0.000	0.000	0.000
173	12/11/2018	10:46:00	0.000	0.000	0.000
174	12/11/2018	10:47:00	0.000	0.000	0.000
175	12/11/2018	10:48:00	0.000	0.000	0.000
176	12/11/2018	10:49:00	0.000	0.000	0.000
177	12/11/2018	10:50:00	0.000	0.000	0.000
178	12/11/2018	10:51:00	0.000	0.000	0.000
179	12/11/2018	10:52:00	0.000	0.000	0.000
180	12/11/2018	10:53:00	0.000	0.000	0.000
181	12/11/2018	10:54:00	0.000	0.000	0.000
182	12/11/2018	10:56:00	0.000	0.000	0.000
183	12/11/2018	10:57:00	0.000	0.000	0.000
184	12/11/2018	10:58:00	0.000	0.000	0.000
185	12/11/2018	10:59:00	0.000	0.000	0.000
186	12/11/2018	11:00:00	0.000	0.000	0.000
187	12/11/2018	11:01:00	0.000	0.000	0.000
188	12/11/2018	11:02:00	0.000	0.000	0.000
189	12/11/2018	11:03:00	0.000	0.000	0.000
190	12/11/2018	11:04:00	0.000	0.000	0.000
191	12/11/2018	11:05:00	0.000	0.000	0.000
192	12/11/2018	11:06:00	0.000	0.000	0.000
193	12/11/2018	11:07:00	0.000	0.000	0.000
194	12/11/2018	11:08:00	0.000	0.000	0.000



195	12/11/2018	11:09:00	0.000	0.000	0.000
196	12/11/2018	11:10:00	0.000	0.000	0.000
197	12/11/2018	11:11:00	0.000	0.000	0.000
198	12/11/2018	11:12:00	0.000	0.000	0.000
199	12/11/2018	11:13:00	0.000	0.000	0.000
200	12/11/2018	11:14:00	0.000	0.000	0.000
201	12/11/2018	11:15:00	0.000	0.000	0.000
202	12/11/2018	11:16:00	0.000	0.000	0.000
203	12/11/2018	11:17:00	0.000	0.000	0.000
204	12/11/2018	11:18:00	0.000	0.000	0.000
205	12/11/2018	11:19:00	0.000	0.000	0.000
206	12/11/2018	11:20:00	0.000	0.000	0.000
207	12/11/2018	11:21:00	0.000	0.000	0.000
208	12/11/2018	11:22:00	0.000	0.000	0.000
209	12/11/2018	11:23:00	0.000	0.000	0.000
210	12/11/2018	11:24:00	0.000	0.000	0.000
211	12/11/2018	11:25:00	0.000	0.000	0.000
212	12/11/2018	11:26:00	0.000	0.000	0.000
213	12/11/2018	11:27:00	0.000	0.000	0.000
214	12/11/2018	11:28:00	0.000	0.000	0.000
215	12/11/2018	11:29:00	0.000	0.000	0.000
216	12/11/2018	11:30:00	0.000	0.000	0.000
217	12/11/2018	11:31:00	0.000	0.000	0.000
218	12/11/2018	11:32:00	0.000	0.000	0.000
219	12/11/2018	11:33:00	0.000	0.000	0.000
220	12/11/2018	11:34:00	0.000	0.000	0.000
221	12/11/2018	11:35:00	0.000	0.000	0.000
222	12/11/2018	11:36:00	0.000	0.000	0.000
223	12/11/2018	11:37:00	0.000	0.000	0.000
224	12/11/2018	11:38:00	0.000	0.000	0.000
225	12/11/2018	11:39:00	0.000	0.000	0.000
226	12/11/2018	11:40:00	0.000	0.000	0.000
227	12/11/2018	11:41:00	0.000	0.000	0.000
228	12/11/2018	11:42:00	0.000	0.000	0.000
229	12/11/2018	11:43:00	0.000	0.000	0.000
230	12/11/2018	11:44:00	0.000	0.000	0.000
231	12/11/2018	11:45:00	0.000	0.000	0.000
232	12/11/2018	11:46:00	0.000	0.000	0.000
233	12/11/2018	11:47:00	0.000	0.000	0.000
234	12/11/2018	11:48:00	0.000	0.000	0.000
235	12/11/2018	11:49:00	0.000	0.000	0.000
236	12/11/2018	11:50:00	0.000	0.000	0.000
237	12/11/2018	11:51:00	0.000	0.000	0.000
238	12/11/2018	11:52:00	0.000	0.000	0.000
239	12/11/2018	11:53:00	0.000	0.000	0.000
240	12/11/2018	11:54:00	0.000	0.000	0.000
241	12/11/2018	11:55:00	0.000	0.000	0.000

242	12/11/2018	11:56:00	0.000	0.000	0.000
243	12/11/2018	11:57:00	0.000	0.000	0.000
244	12/11/2018	11:58:00	0.000	0.000	0.000
245	12/11/2018	11:59:00	0.000	0.000	0.000
246	12/11/2018	12:00:00	0.000	0.000	0.000
247	12/11/2018	12:01:00	0.000	0.000	0.000
248	12/11/2018	12:02:00	0.000	0.000	0.000
249	12/11/2018	12:03:00	0.000	0.000	0.000
250	12/11/2018	12:04:00	0.000	0.000	0.000
251	12/11/2018	12:05:00	0.000	0.000	0.000
252	12/11/2018	12:06:00	0.000	0.000	0.000
253	12/11/2018	12:07:00	0.000	0.000	0.000
254	12/11/2018	12:08:00	0.000	0.000	0.000
255	12/11/2018	12:09:00	0.000	0.000	0.000
256	12/11/2018	12:10:00	0.000	0.000	0.000
257	12/11/2018	12:11:00	0.000	0.000	0.000
258	12/11/2018	12:12:00	0.000	0.000	0.000
259	12/11/2018	12:13:00	0.000	0.000	0.000
260	12/11/2018	12:14:00	0.000	0.000	0.000
261	12/11/2018	12:15:00	0.000	0.000	0.000
262	12/11/2018	12:16:00	0.000	0.000	0.000
263	12/11/2018	12:17:00	0.000	0.000	0.000
264	12/11/2018	12:18:00	0.000	0.000	0.000
265	12/11/2018	12:19:00	0.000	0.000	0.000
266	12/11/2018	12:20:00	0.000	0.000	0.000
267	12/11/2018	12:21:00	0.000	0.000	0.000
268	12/11/2018	12:22:00	0.000	0.000	0.000
269	12/11/2018	12:23:00	0.000	0.000	0.000
270	12/11/2018	12:24:00	0.000	0.000	0.000
271	12/11/2018	12:25:00	0.000	0.000	0.000
272	12/11/2018	12:26:00	0.000	0.000	0.000
273	12/11/2018	12:27:00	0.000	0.000	0.000
274	12/11/2018	12:28:00	0.000	0.000	0.000
275	12/11/2018	12:29:00	0.000	0.000	0.000
276	12/11/2018	12:30:00	0.000	0.000	0.000
277	12/11/2018	12:31:00	0.000	0.000	0.000
278	12/11/2018	12:32:00	0.000	0.000	0.000
279	12/11/2018	12:33:00	0.000	0.000	0.000
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281	12/11/2018	12:35:00	0.000	0.000	0.000
282	12/11/2018	12:36:00	0.000	0.000	0.000
283	12/11/2018	12:37:00	0.000	0.000	0.000
284	12/11/2018	12:38:00	0.000	0.000	0.000
285	12/11/2018	12:39:00	0.000	0.000	0.000
286	12/11/2018	12:40:00	0.000	0.000	0.000
287	12/11/2018	12:41:00	0.000	0.000	0.000
288	12/11/2018	12:42:00	0.000	0.000	0.000

289	12/11/2018	12:43:00	0.000	0.000	0.000
290	12/11/2018	12:44:00	0.000	0.000	0.000
291	12/11/2018	12:45:00	0.000	0.000	0.000
292	12/11/2018	12:46:00	0.000	0.000	0.000
293	12/11/2018	12:47:00	0.000	0.000	0.000
294	12/11/2018	12:48:00	0.000	0.000	0.000
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300	12/11/2018	12:54:00	0.000	0.000	0.000
301	12/11/2018	12:55:00	0.000	0.000	0.000
302	12/11/2018	12:56:00	0.000	0.000	0.000
303	12/11/2018	12:57:00	0.000	0.000	0.000
304	12/11/2018	12:58:00	0.000	0.000	0.000
305	12/11/2018	12:59:00	0.000	0.000	0.000
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307	12/11/2018	13:01:00	0.000	0.000	0.000
308	12/11/2018	13:02:00	0.000	0.000	0.000
309	12/11/2018	13:03:00	0.000	0.000	0.000
310	12/11/2018	13:04:00	0.000	0.000	0.000
311	12/11/2018	13:05:00	0.000	0.000	0.000
312	12/11/2018	13:06:00	0.000	0.000	0.000
313	12/11/2018	13:07:00	0.000	0.000	0.000
314	12/11/2018	13:08:00	0.000	0.000	0.000
315	12/11/2018	13:09:00	0.000	0.000	0.000
316	12/11/2018	13:10:00	0.000	0.000	0.000
317	12/11/2018	13:11:00	0.000	0.000	0.000
318	12/11/2018	13:12:00	0.000	0.000	0.000
319	12/11/2018	13:13:00	0.000	0.000	0.000
320	12/11/2018	13:14:00	0.000	0.000	0.000
321	12/11/2018	13:15:00	0.000	0.000	0.000
322	12/11/2018	13:16:00	0.000	0.000	0.000
323	12/11/2018	13:17:00	0.000	0.000	0.000
324	12/11/2018	13:18:00	0.000	0.000	0.000
325	12/11/2018	13:19:00	0.000	0.000	0.000
326	12/11/2018	13:20:00	0.000	0.000	0.000
327	12/11/2018	13:21:00	0.000	0.000	0.000
328	12/11/2018	13:22:00	0.000	0.000	0.000
329	12/11/2018	13:23:00	0.000	0.000	0.000
330	12/11/2018	13:24:00	0.000	0.000	0.000
331	12/11/2018	13:25:00	0.000	0.000	0.000
332	12/11/2018	13:26:00	0.000	0.000	0.000
333	12/11/2018	13:27:00	0.000	0.000	0.000
334	12/11/2018	13:28:00	0.000	0.000	0.000
335	12/11/2018	13:29:00	0.000	0.000	0.000

336	12/11/2018	13:30:00	0.000	0.000	0.000
337	12/11/2018	13:31:00	0.000	0.000	0.000
338	12/11/2018	13:32:00	0.000	0.000	0.000
339	12/11/2018	13:33:00	0.000	0.000	0.000
340	12/11/2018	13:34:00	0.000	0.000	0.000
341	12/11/2018	13:35:00	0.000	0.000	0.000
342	12/11/2018	13:36:00	0.000	0.000	0.000
343	12/11/2018	13:37:00	0.000	0.000	0.000
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345	12/11/2018	13:39:00	0.000	0.000	0.000
346	12/11/2018	13:40:00	0.000	0.000	0.000
347	12/11/2018	13:41:00	0.000	0.000	0.000
348	12/11/2018	13:42:00	0.000	0.000	0.000
349	12/11/2018	13:43:00	0.000	0.000	0.000
350	12/11/2018	13:44:00	0.000	0.000	0.000
351	12/11/2018	13:45:00	0.000	0.000	0.000
352	12/11/2018	13:46:00	0.000	0.000	0.000
353	12/11/2018	13:47:00	0.000	0.000	0.000
354	12/11/2018	13:48:00	0.000	0.000	0.000
355	12/11/2018	13:49:00	0.000	0.000	0.000
356	12/11/2018	13:50:00	0.000	0.000	0.000
357	12/11/2018	13:51:00	0.000	0.000	0.000
358	12/11/2018	13:52:00	0.000	0.000	0.000
359	12/11/2018	13:53:00	0.000	0.000	0.000
360	12/11/2018	13:54:00	0.000	0.000	0.000
361	12/11/2018	13:55:00	0.000	0.000	0.000
362	12/11/2018	13:56:00	0.000	0.000	0.000
363	12/11/2018	13:57:00	0.000	0.000	0.000
364	12/11/2018	13:58:00	0.000	0.000	0.000
365	12/11/2018	13:59:00	0.000	0.000	0.000
366	12/11/2018	14:00:00	0.000	0.000	0.000
367	12/11/2018	14:01:00	0.000	0.000	0.000
368	12/11/2018	14:02:00	0.000	0.000	0.000
369	12/11/2018	14:03:00	0.000	0.000	0.000
370	12/11/2018	14:04:00	0.000	0.000	0.000
371	12/11/2018	14:05:00	0.000	0.000	0.000
372	12/11/2018	14:06:00	0.000	0.000	0.000
373	12/11/2018	14:07:00	0.000	0.000	0.000
374	12/11/2018	14:08:00	0.000	0.000	0.000
375	12/11/2018	14:09:00	0.000	0.000	0.000
376	12/11/2018	14:10:00	0.000	0.000	0.000
377	12/11/2018	14:11:00	0.000	0.000	0.000
378	12/11/2018	14:12:00	0.000	0.000	0.000
379	12/11/2018	14:13:00	0.000	0.000	0.000
380	12/11/2018	14:14:00	0.000	0.000	0.000
381	12/11/2018	14:15:00	0.000	0.000	0.000
382	12/11/2018	14:16:00	0.000	0.000	0.000

383	12/11/2018	14:17:00	0.000	0.000	0.000
384	12/11/2018	14:18:00	0.000	0.000	0.000
385	12/11/2018	14:19:00	0.000	0.000	0.000
386	12/11/2018	14:20:00	0.000	0.000	0.000
387	12/11/2018	14:21:00	0.000	0.000	0.000
388	12/11/2018	14:22:00	0.000	0.000	0.000
389	12/11/2018	14:23:00	0.000	0.000	0.000
390	12/11/2018	14:24:00	0.000	0.000	0.000
391	12/11/2018	14:25:00	0.000	0.000	0.000
392	12/11/2018	14:26:00	0.000	0.000	0.000
393	12/11/2018	14:27:00	0.000	0.000	0.000
394	12/11/2018	14:28:00	0.000	0.000	0.000
395	12/11/2018	14:29:00	0.000	0.000	0.000
396	12/11/2018	14:30:00	0.000	0.000	0.000
397	12/11/2018	14:31:00	0.000	0.000	0.000
398	12/11/2018	14:32:00	0.000	0.000	0.000
399	12/11/2018	14:33:00	0.000	0.000	0.000
400	12/11/2018	14:34:00	0.000	0.000	0.000
401	12/11/2018	14:35:00	0.000	0.000	0.000
402	12/11/2018	14:36:00	0.000	0.000	0.000
403	12/11/2018	14:37:00	0.000	0.000	0.000
404	12/11/2018	14:38:00	0.000	0.000	0.000
405	12/11/2018	14:39:00	0.000	0.000	0.000
406	12/11/2018	14:40:00	0.000	0.000	0.000
407	12/11/2018	14:41:00	0.000	0.000	0.000
408	12/11/2018	14:42:00	0.000	0.000	0.000
409	12/11/2018	14:43:00	0.000	0.000	0.000
410	12/11/2018	14:44:00	0.000	0.000	0.000
411	12/11/2018	14:45:00	0.000	0.000	0.000
412	12/11/2018	14:46:00	0.000	0.000	0.000
413	12/11/2018	14:47:00	0.000	0.000	0.000
414	12/11/2018	14:48:00	0.000	0.000	0.000
415	12/11/2018	14:49:00	0.000	0.000	0.000
416	12/11/2018	14:50:00	0.000	0.000	0.000
417	12/11/2018	14:51:00	0.000	0.000	0.000
418	12/11/2018	14:52:00	0.000	0.000	0.000
419	12/11/2018	14:53:00	0.000	0.000	0.000
420	12/11/2018	14:54:00	0.000	0.000	0.000
421	12/11/2018	14:55:00	0.000	0.000	0.000
422	12/11/2018	14:56:00	0.000	0.000	0.000
423	12/11/2018	14:57:00	0.000	0.000	0.000
424	12/11/2018	14:58:00	0.000	0.000	0.000
425	12/11/2018	14:59:00	0.000	0.000	0.000
426	12/11/2018	15:00:00	0.000	0.000	0.000
427	12/11/2018	15:01:00	0.000	0.000	0.000
428	12/11/2018	15:02:00	0.000	0.000	0.000
429	12/11/2018	15:03:00	0.000	0.000	0.000

430	12/11/2018	15:04:00	0.000	0.000	0.000
431	12/11/2018	15:05:00	0.000	0.000	0.000
432	12/11/2018	15:06:00	0.000	0.000	0.000
433	12/11/2018	15:07:00	0.000	0.000	0.000
434	12/11/2018	15:08:00	0.000	0.000	0.000
435	12/11/2018	15:09:00	0.000	0.000	0.000
436	12/11/2018	15:10:00	0.000	0.000	0.000

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18/12/12 08:01  
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Summary

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Unit Name       MiniRAE 3000  
Unit SN         592-907579  
Unit Firmware Ver V1.20B  
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Running Mode     Hygiene Mode  
Measure Type     Avg; Max; Real  
Datalog Mode     Continuous  
Datalog Type     Auto  
Diagnostic Mode   No  
Stop Reason      Power Down  
-----

Site ID         12345678  
User ID         12345678  
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Begin           2018/12/12 08:05:00  
End             2018/12/12 11:45:00  
Sample Period(s) 60  
Number of Records 221  
-----

Sensor          VOC(ppm)  
Span            100.000  
Span 2          N/A  
Low Alarm       50.000  
High Alarm      100.000  
Over Alarm      15000.000  
STEL Alarm      25.000  
TWA Alarm       10.000  
Measurement Gas Isobutylene  
Calibration Time 2018/12/12 07:46  
Peak            0.000  
Min             0.000  
Average         0.000

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Datalog

Index	Date/Time	VOC(ppm)(Avg)	VOC(ppm)(Max)	VOC(ppm)(Real)
1	12/12/2018 8:05:00	0	0	0
2	12/12/2018 8:06:00	0	0	0
3	12/12/2018 8:07:00	0	0	0
4	12/12/2018 8:08:00	0	0	0
5	12/12/2018 8:09:00	0	0	0
6	12/12/2018 8:10:00	0	0	0

7	12/12/2018	8:11:00	0	0	0
8	12/12/2018	8:12:00	0	0	0
9	12/12/2018	8:13:00	0	0	0
10	12/12/2018	8:14:00	0	0	0
11	12/12/2018	8:15:00	0	0	0
12	12/12/2018	8:16:00	0	0	0
13	12/12/2018	8:17:00	0	0	0
14	12/12/2018	8:18:00	0	0	0
15	12/12/2018	8:19:00	0	0	0
16	12/12/2018	8:20:00	0	0	0
17	12/12/2018	8:21:00	0	0	0
18	12/12/2018	8:22:00	0	0	0
19	12/12/2018	8:23:00	0	0	0
20	12/12/2018	8:24:00	0	0	0
21	12/12/2018	8:25:00	0	0	0
22	12/12/2018	8:26:00	0	0	0
23	12/12/2018	8:27:00	0	0	0
24	12/12/2018	8:28:00	0	0	0
25	12/12/2018	8:29:00	0	0	0
26	12/12/2018	8:30:00	0	0	0
27	12/12/2018	8:31:00	0	0	0
28	12/12/2018	8:32:00	0	0	0
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33	12/12/2018	8:37:00	0	0	0
34	12/12/2018	8:38:00	0	0	0
35	12/12/2018	8:39:00	0	0	0
36	12/12/2018	8:40:00	0	0	0
37	12/12/2018	8:41:00	0	0	0
38	12/12/2018	8:42:00	0	0	0
39	12/12/2018	8:43:00	0	0	0
40	12/12/2018	8:44:00	0	0	0
41	12/12/2018	8:45:00	0	0	0
42	12/12/2018	8:46:00	0	0	0
43	12/12/2018	8:47:00	0	0	0
44	12/12/2018	8:48:00	0	0	0
45	12/12/2018	8:49:00	0	0	0
46	12/12/2018	8:50:00	0	0	0
47	12/12/2018	8:51:00	0	0	0
48	12/12/2018	8:52:00	0	0	0
49	12/12/2018	8:53:00	0	0	0
50	12/12/2018	8:54:00	0	0	0
51	12/12/2018	8:55:00	0	0	0
52	12/12/2018	8:56:00	0	0	0
53	12/12/2018	8:57:00	0	0	0



54	12/12/2018	8:58:00	0	0	0
55	12/12/2018	8:59:00	0	0	0
56	12/12/2018	9:00:00	0	0	0
57	12/12/2018	9:01:00	0	0	0
58	12/12/2018	9:02:00	0	0	0
59	12/12/2018	9:03:00	0	0	0
60	12/12/2018	9:04:00	0	0	0
61	12/12/2018	9:05:00	0	0	0
62	12/12/2018	9:06:00	0	0	0
63	12/12/2018	9:07:00	0	0	0
64	12/12/2018	9:08:00	0	0	0
65	12/12/2018	9:09:00	0	0	0
66	12/12/2018	9:10:00	0	0	0
67	12/12/2018	9:11:00	0	0	0
68	12/12/2018	9:12:00	0	0	0
69	12/12/2018	9:13:00	0	0	0
70	12/12/2018	9:14:00	0	0	0
71	12/12/2018	9:15:00	0	0	0
72	12/12/2018	9:16:00	0	0	0
73	12/12/2018	9:17:00	0	0	0
74	12/12/2018	9:18:00	0	0	0
75	12/12/2018	9:19:00	0	0	0
76	12/12/2018	9:20:00	0	0	0
77	12/12/2018	9:21:00	0	0	0
78	12/12/2018	9:22:00	0	0	0
79	12/12/2018	9:23:00	0	0	0
80	12/12/2018	9:24:00	0	0	0
81	12/12/2018	9:25:00	0	0	0
82	12/12/2018	9:26:00	0	0	0
83	12/12/2018	9:27:00	0	0	0
84	12/12/2018	9:28:00	0	0	0
85	12/12/2018	9:29:00	0	0	0
86	12/12/2018	9:30:00	0	0	0
87	12/12/2018	9:31:00	0	0	0
88	12/12/2018	9:32:00	0	0	0
89	12/12/2018	9:33:00	0	0	0
90	12/12/2018	9:34:00	0	0	0
91	12/12/2018	9:35:00	0	0	0
92	12/12/2018	9:36:00	0	0	0
93	12/12/2018	9:37:00	0	0	0
94	12/12/2018	9:38:00	0	0	0
95	12/12/2018	9:39:00	0	0	0
96	12/12/2018	9:40:00	0	0	0
97	12/12/2018	9:41:00	0	0	0
98	12/12/2018	9:42:00	0	0	0
99	12/12/2018	9:43:00	0	0	0
100	12/12/2018	9:44:00	0	0	0

101	12/12/2018	9:45:00	0	0	0
102	12/12/2018	9:46:00	0	0	0
103	12/12/2018	9:47:00	0	0	0
104	12/12/2018	9:48:00	0	0	0
105	12/12/2018	9:49:00	0	0	0
106	12/12/2018	9:50:00	0	0	0
107	12/12/2018	9:51:00	0	0	0
108	12/12/2018	9:52:00	0	0	0
109	12/12/2018	9:53:00	0	0	0
110	12/12/2018	9:54:00	0	0	0
111	12/12/2018	9:55:00	0	0	0
112	12/12/2018	9:56:00	0	0	0
113	12/12/2018	9:57:00	0	0	0
114	12/12/2018	9:58:00	0	0	0
115	12/12/2018	9:59:00	0	0	0
116	12/12/2018	10:00:00	0	0	0
117	12/12/2018	10:01:00	0	0	0
118	12/12/2018	10:02:00	0	0	0
119	12/12/2018	10:03:00	0	0	0
120	12/12/2018	10:04:00	0	0	0
121	12/12/2018	10:05:00	0	0	0
122	12/12/2018	10:06:00	0	0	0
123	12/12/2018	10:07:00	0	0	0
124	12/12/2018	10:08:00	0	0	0
125	12/12/2018	10:09:00	0	0	0
126	12/12/2018	10:10:00	0	0	0
127	12/12/2018	10:11:00	0	0	0
128	12/12/2018	10:12:00	0	0	0
129	12/12/2018	10:13:00	0	0	0
130	12/12/2018	10:14:00	0	0	0
131	12/12/2018	10:15:00	0	0	0
132	12/12/2018	10:16:00	0	0	0
133	12/12/2018	10:17:00	0	0	0
134	12/12/2018	10:18:00	0	0	0
135	12/12/2018	10:19:00	0	0	0
136	12/12/2018	10:20:00	0	0	0
137	12/12/2018	10:21:00	0	0	0
138	12/12/2018	10:22:00	0	0	0
139	12/12/2018	10:23:00	0	0	0
140	12/12/2018	10:24:00	0	0	0
141	12/12/2018	10:25:00	0	0	0
142	12/12/2018	10:26:00	0	0	0
143	12/12/2018	10:27:00	0	0	0
144	12/12/2018	10:28:00	0	0	0
145	12/12/2018	10:29:00	0	0	0
146	12/12/2018	10:30:00	0	0	0
147	12/12/2018	10:31:00	0	0	0

148	12/12/2018	10:32:00	0	0	0
149	12/12/2018	10:33:00	0	0	0
150	12/12/2018	10:34:00	0	0	0
151	12/12/2018	10:35:00	0	0	0
152	12/12/2018	10:36:00	0	0	0
153	12/12/2018	10:37:00	0	0	0
154	12/12/2018	10:38:00	0	0	0
155	12/12/2018	10:39:00	0	0	0
156	12/12/2018	10:40:00	0	0	0
157	12/12/2018	10:41:00	0	0	0
158	12/12/2018	10:42:00	0	0	0
159	12/12/2018	10:43:00	0	0	0
160	12/12/2018	10:44:00	0	0	0
161	12/12/2018	10:45:00	0	0	0
162	12/12/2018	10:46:00	0	0	0
163	12/12/2018	10:47:00	0	0	0
164	12/12/2018	10:48:00	0	0	0
165	12/12/2018	10:49:00	0	0	0
166	12/12/2018	10:50:00	0	0	0
167	12/12/2018	10:51:00	0	0	0
168	12/12/2018	10:52:00	0	0	0
169	12/12/2018	10:53:00	0	0	0
170	12/12/2018	10:54:00	0	0	0
171	12/12/2018	10:55:00	0	0	0
172	12/12/2018	10:56:00	0	0	0
173	12/12/2018	10:57:00	0	0	0
174	12/12/2018	10:58:00	0	0	0
175	12/12/2018	10:59:00	0	0	0
176	12/12/2018	11:00:00	0	0	0
177	12/12/2018	11:01:00	0	0	0
178	12/12/2018	11:02:00	0	0	0
179	12/12/2018	11:03:00	0	0	0
180	12/12/2018	11:04:00	0	0	0
181	12/12/2018	11:05:00	0	0	0
182	12/12/2018	11:06:00	0	0	0
183	12/12/2018	11:07:00	0	0	0
184	12/12/2018	11:08:00	0	0	0
185	12/12/2018	11:09:00	0	0	0
186	12/12/2018	11:10:00	0	0	0
187	12/12/2018	11:11:00	0	0	0
188	12/12/2018	11:12:00	0	0	0
189	12/12/2018	11:13:00	0	0	0
190	12/12/2018	11:14:00	0	0	0
191	12/12/2018	11:15:00	0	0	0
192	12/12/2018	11:16:00	0	0	0
193	12/12/2018	11:17:00	0	0	0
194	12/12/2018	11:18:00	0	0	0

195	12/12/2018	11:19:00	0	0	0
196	12/12/2018	11:20:00	0	0	0
197	12/12/2018	11:21:00	0	0	0
198	12/12/2018	11:22:00	0	0	0
199	12/12/2018	11:23:00	0	0	0
200	12/12/2018	11:24:00	0	0	0
201	12/12/2018	11:25:00	0	0	0
202	12/12/2018	11:26:00	0	0	0
203	12/12/2018	11:27:00	0	0	0
204	12/12/2018	11:28:00	0	0	0
205	12/12/2018	11:29:00	0	0	0
206	12/12/2018	11:30:00	0	0	0
207	12/12/2018	11:31:00	0	0	0
208	12/12/2018	11:32:00	0	0	0
209	12/12/2018	11:33:00	0	0	0
210	12/12/2018	11:34:00	0	0	0
211	12/12/2018	11:35:00	0	0	0
212	12/12/2018	11:36:00	0	0	0
213	12/12/2018	11:37:00	0	0	0
214	12/12/2018	11:38:00	0	0	0
215	12/12/2018	11:39:00	0	0	0
216	12/12/2018	11:40:00	0	0	0
217	12/12/2018	11:41:00	0	0	0
218	12/12/2018	11:42:00	0	0	0
219	12/12/2018	11:43:00	0	0	0
220	12/12/2018	11:44:00	0	0	0
221	12/12/2018	11:45:00	0	0	0



## Appendix I

### Data Usability Summary Reports

# Data Usability Summary Report

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
TestAmerica Laboratories, Inc. SDG#480-143167-1  
March 23, 2019  
Revised; May 22, 2019  
Sampling date: 10/9/2018

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
SDG# 480-143167-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package (revised, May 22, 2019) for O'Brien and Gere Inc., project located at Parsons/Tim Bayly site, TestAmerica Laboratories, Inc. (TestAmerica), SDG#480-143167-1, submitted to Vali-Data of WNY, LLC on February 21, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA methods VOC (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Inorganics (6010C), Mercury (7470A) and Cyanide (9012B).

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Method Blank, MS/MSD, Compound Quantitation, Initial Calibration and Continuing Calibration.

## **DATA COMPLETENESS**

All criteria were met.

## **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Parsons/Tim Bayly  
SDG# 480-143167-1

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of 1,2-Dichloroethane-d<sub>4</sub> was outside ASP QC limits, high in MB 480-440362/8. Associated target analytes in MB 480-440362/8 should be qualified as estimated high, if detected.

#### **METHOD BLANK**

All criteria were met except Chloroform and Methylene Chloride were detected above the MDL, below the reporting limit and are qualified as estimated in MB 480-438778/2-A. These target analytes should be qualified as undetected at the reporting limit if detected in the associated samples below the reporting limit. These target analytes should be qualified as estimated high if detected above the reporting limit in the associated samples.

#### **FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met.

#### **LABORATORY CONTROL SAMPLES**

All criteria were met.

#### **MS/MSD**

All criteria were met except the %Rec of 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 2-Butanone, Bromoform, cis-1,3-Dichloropropene, 1,2-Dibromoethane, Styrene and 1,2,3-Trichlorobenzene were outside QC limits, low in SS-03-0.0-0.6-100918MS/MSD. The RPD of 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2,4-Trimethylbenzene, 1,1,2-Trichloro-1,2,2-Trichloroethane, Carbon Tetrachloride, Chloromethane, Ethylbenzene, Isopropyl benzene, Methylcyclohexane, Tetrachloroethene, n-Butylbenzene, sec-Butylbenzene, n-Propylbenzene, 4-Isopropyltoluene, 1,3,5-Trimethylbenzene and tert-Butylbenzene were outside QC limits between SS-03-0.0-0.6-100918MS and SS-03-0.0-0.6-100918MSD. These target analytes should be qualified as estimated in SS-03-0.0-0.6-100918 and SS-03-0.0-0.6-100918MS/MSD. Several target analytes were outside QC limits in the matrix spike or the matrix spike duplicate but not both, so no further action is required.



### **COMPOUND QUANTITATION**

All criteria were met except Chloroform was detected in Trip Blank\_100918 above the reporting limit. This target analyte should be qualified as undetected at the reporting limit if it was detected in the associated samples below the reporting limit. This target analyte should be qualified as undetected in the associated samples if detected between the reporting limit and the blank concentration. This target analyte should be qualified as estimated high if detected in the associated samples above the blank concentration.

### **INITIAL CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in the initial calibration performed on instrument HP5973F. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

Alternate forms of regression were used on target analytes in which their %RSD > 20.0% with acceptable results.

### **CONTINUING CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in CCVIS 480-439023/3. This target analyte should be qualified as estimated in the associated samples, blanks and spikes.

### **GC/MS PERFORMANCE CHECK**

All criteria were met.

### **SEMIVOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Laboratory Control Samples, MS/MSD and Method Blanks.

All samples were diluted due to either high target analyte concentration, sample matrix or color and appearance.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All criteria were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

#### **METHOD BLANK**

All the criteria were met except TICs were detected in MB 480-439290/1-A and MB 480-440012/1-A. These TICs should be qualified as estimated high if detected in the associated samples.

#### **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met except 2-Methylnaphthalene, Acenaphthene, Anthracene, Carbazole, Dibenzofuran, Fluorene and Naphthalene were detected in SS-02-0.0-0.2-100918 but were not detected in X-2-100918.

#### **LABORATORY CONTROL SAMPLES**

All criteria were met.

## **MS/MSD**

All criteria were met except the %Rec of Phenanthrene and 2,4-Dinitrotoluene was outside QC limits, high in SS-03-0.0-0.2-100918MS/MSD. These target analytes should be qualified as estimated high in SS-03-0.0-0.2-100918 and SS-03-0.0-0.2-100918MS/MSD, if detected. The %Rec of 2,4-Dinitrophenol was 0% in SS-03-0.0-0.2-100918MS/MSD. This target analyte should be qualified as unusable in SS-03-0.0-0.2-100918 and SS-03-0.0-0.2-100918MS/MSD. The RPD of 2-Methylnaphthalene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(k)fluoranthene, Chrysene, Dibenzofuran, Fluorene, Fluoranthene, Phenanthrene and Naphthalene was outside QC limits between SS-03-0.0-0.2-100918MS and SS-03-0.0-0.2-100918MSD. These target analytes should be qualified as estimated in SS-03-0.0-0.2-100918 and SS-03-0.0-0.2-100918MS/MSD.

## **COMPOUND QUANTITATION**

All the criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

## **CONTINUING CALIBRATION**

All criteria were met.

## **GC/MS PERFORMANCE CHECK**

All criteria were met.

## **PESTICIDES**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Surrogate Spike Recoveries, MS/MSD, Laboratory Control Samples and Continuing Calibration.

All samples were diluted due to either high target analyte concentration, sample matrix or color and appearance.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **INTERNAL STANDARD**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of DCBP off column RTX-CLPI was outside QC limits, high in SS-03-0.0-0.2-100918MS. The %Rec of DCBP off column RTX-CLPII was outside QC limits, high in all of the samples and MS/MSD's except SS-01-0.0-0.2-100918. The %Rec of TCMX off column RTX-CLPI was outside QC limits, high in SS-01-0.0-0.2-100918 and X-2-100918. These surrogates should be qualified as estimated high in the associated samples.

The %Rec of DCBP was 0% in SS-01-0.0-0.2-100918. No further action is required due to dilution.

#### **METHOD BLANK**

All the criteria were met.

#### **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

## **LABORATORY CONTROL SAMPLES**

All criteria were met except the RPD of beta-BHC, Endosulfan sulfate and Endrin Ketone was outside QC limits between the columns in LCS 480-440270/2-A. The RPD of cis-Chlordane was outside QC limits between the columns in LCS 480-439164/2-A. These target analytes should be qualified as estimated in the associated laboratory control samples.

## **MS/MSD**

All criteria were met except the %Rec of 4,4'-DDE was outside QC limits, less than 20% in SS-03-0.0-0.2-100918MS/MSD. This target analyte should be qualified as unusable in SS-03-0.0-0.2-100918 if not detected or estimated if detected.

The RPD of beta-BHC, delta-BHC, Dieldrin, gamma-BHC, Heptachlor and Heptachlor epoxide was outside QC limits between X-2-100918MS and X-2-100918MSD. These target analytes should be qualified as estimated in X-2-100918 and X-2-100918MS/MSD.

The RPD of beta-BHC, Dieldrin, gamma-BHC, trans-Chlordane, 4,4'-DDD, Endosulfan II, Endrin aldehyde, Methoxychlor, Endosulfan sulfate and Heptachlor epoxide was outside QC limits between the columns in SS-03-0.0-0.2-100918MS. The RPD of beta-BHC, Dieldrin, gamma-BHC, trans-Chlordane, 4,4'-DDD, Endosulfan II, Endrin aldehyde, Methoxychlor, Endosulfan sulfate, Heptachlor, cis-Chlordane, Endrin, Endrin Ketone and Heptachlor epoxide was outside QC limits between the columns in SS-03-0.0-0.2-100918MSD. The RPD of alpha-BHC, delta-BHC, beta-BHC, Dieldrin, gamma-BHC, Endrin aldehyde, Methoxychlor and Endosulfan sulfate was outside QC limits between the columns in X-2-100918MS. The RPD of alpha-BHC, Endosulfan II, Dieldrin, gamma-BHC, Endrin aldehyde, Methoxychlor and Endosulfan sulfate was outside QC limits between the columns in X-2-100918MSD. These target analytes should be qualified as estimated in the associated MS/MSD.

## **COMPOUND QUANTITATION**

All criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

## **CONTINUING CALIBRATION**

All criteria were met except the %D of all of the Toxaphene peaks was outside QC limits off column RTX-CLPII in CCV 480-437411/8 and CCV 480-440468/8. The %D of beta-BHC and Heptachlor was outside QC limits off column RTX-CLPII in CCV 480-440468/30. These target analytes should be qualified as estimated in the associated samples, blanks and spikes off the associated column.

Several peaks were outside QC limits, but ASP requires three peaks to be compliant, so no further action is required.

## **PCB**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples, MS/MSD and Continuing Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the samples were met.

#### **INTERNAL STANDARD**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

## **METHOD BLANK**

All criteria were met except the %Rec of DCBP off column ZB-5 was outside QC limits, high in MB 480-440193/1-A. The %Rec of DCBP off column ZB-35 was outside QC limits, high MB 480-440193/1-A, LCS 480-440193/2-A and SS-03-0.0-0.2-100918MS. The %Rec of TCMX off column ZB-5 was outside QC limits, high in MB 480-440193/1-A, LCS 480-439260/2-A and SS-03-0.0-0.2-100918MS. The %Rec of TCMX off column ZB-35 was outside QC limits, high in MB 480-440193/1-A. These surrogates should be qualified as estimated high in the associated samples, blanks and spikes.

## **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

## **LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec of Aroclor 1016 was outside QC limits, high LCS 480-440193/2-A and LCS 480-439260/2-A. This target analyte should be qualified as estimated high in these laboratory control samples and the associated samples in which they were detected.

## **MS/MSD**

All criteria were met except the RPD between the columns of Aroclor 1016 was outside QC limits in SS-03-0.0-0.2-100918MSD and should be qualified as estimated.

## **COMPOUND QUANTITATION**

All criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on target analytes and surrogates in which the %RSD >20.0%, with acceptable results.

## **CONTINUING CALIBRATION**

All criteria were met except the %D of TCMX was outside QC limits in CCVIS 480-440724/5 off column ZB-5. The %D of Aroclor 1016 peaks 1, 3, 5, Aroclor 1260 peaks 3-5, TCMX and DCBP was outside QC limits in CCVIS 480-440724/5 off column ZB-35. The %D of Aroclor 1221 peaks 3 and 4 were outside QC limits in CCV 480-440724/6 off column ZB-5. The %D of Aroclor 1254 peaks 1-5 and Aroclor 1221 peak 1-4 were outside QC limits in CCV 480-440724/6 off column ZB-35. The %D of Aroclor 1232 peaks 1-5 were outside QC limits in CCV 480-440724/7 off column ZB-5. The %D of Aroclor 1232 peaks 1-5 and Aroclor 1262 peaks 1-5 were outside QC limits in CCV 480-440724/7 off column ZB-35. The %D of Aroclor 1268 peaks 2-5 were outside QC limits in CCV 480-440724/8 off column ZB-5. The %D of Aroclor 1268 peaks 1, 2, 4, 5 and Aroclor 1242 peaks 1, 2, 4, 5 were outside QC limits in CCV 480-440724/8 off column ZB-35. The %D of Aroclor 1248 peaks 1, 3, 4 were outside QC limits in CCV 480-440724/8 off column ZB-5. The %D of Aroclor 1248 peaks 1-5 were outside QC limits in CCV 480-440724/8 off column ZB-35. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

The %D of TCMX was outside QC limits in CCVIS 480-439360/5 off both columns. The %D of Aroclor 1221 peaks 3, 4 and Aroclor 1254 peaks 1, 2, 4 and 5 were outside QC limits in CCV 480-439360/6 off column ZB-5. The %D of Aroclor 1221 peaks 1-4 and Aroclor 1254 peaks 1, 4 and 5 were outside QC limits in CCV 480-439360/6 off column ZB-35. The %D of Aroclor 1232 peaks 1, 3-5 and Aroclor 1262 peaks 1-4 were outside QC limits in CCV 480-439360/7 off column ZB-5. The %D of Aroclor 1232 peaks 1-5 and Aroclor 1262 peaks 1-5 were outside QC limits in CCV 480-439360/7 off column ZB-35. The %D of Aroclor 1242 peaks 1, 2, 4 and 5 off column ZB-35 were outside QC limits in CCV 480-439360/8. The %D of Aroclor 1248 peaks 1-4 were outside QC limits in CCV 480-439360/9 off column ZB-5. The %D of Aroclor 1248 peaks 1, 2 and 4 were outside QC limits in CCV 480-439360/9 off column ZB-35. These target analytes should be qualified as estimated in the associated samples, blanks and spikes. Several target analytes had peaks that were outside QC limits, but ASP requires a minimum of three conforming peaks, so no further action is required.

## **METALS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD/Duplicate
- Field Duplicate
- Serial Dilution
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Blanks, Laboratory Control Samples, MS/MSD, Serial Dilutions and Calibration.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

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## **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

## **HOLDING TIMES**

All holding times were met.

## **BLANKS**

All criteria were met except Ca, Mg and Fe were detected in MB 480-440205/1-A above the MDL, below the reporting limit and are qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high. Mn was detected in MB 480-440205/1-A above the reporting limit. Associated samples in which this target analyte was detected below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which this target analyte was detected above the reporting limit, below the blank concentration should be reported as 'undetected'. Associated samples in which this target analyte was detected above the blank concentration should be qualified as estimated high.

## **LABORATORY CONTROL SAMPLE**

All criteria were met except the %Rec of Sb was outside ASP QC limits, low in LCSSRM 480-440205/2-A. This target analyte should be qualified as estimated in the associated samples.

## **MS/MSD**

All criteria were met except the %Rec of Sb was outside QC limits, low in SS-03-0.0-0.2-100918MS/MSD. The %RPD of Sb was outside QC limits between SS-03-0.0-0.2-100918MS and SS-03-0.0-0.2-100918MSD. This target analyte should be qualified as estimated in SS-03-0.0-0.2-100918 and SS-03-0.0-0.2-100918MS/MSD. The %Rec of K was outside QC limits, high in SS-03-0.0-0.2-100918MS/MSD. This target analyte should be qualified as estimated high if detected in SS-03-0.0-0.2-100918 and SS-03-0.0-0.2-100918MS/MSD.

## **FIELD DUPLICATE**

All criteria were met except Se was detected in SS-02-0.0-0.2-100918 but was not detected in X-2-100918.

## **SERIAL DILUTION**

All criteria were met except the %D of Al, As, Ba, Ca, Cr, Fe, Mg, Mn, V and Zn was outside QC limits in SS-03-0.0-0.2-100918SD. These target analytes should be qualified as estimated in SS-03-0.0-0.2-100918.

## **COMPOUND QUANTITATION**

All criteria were met.

## **CALIBRATION**

All criteria were met except Zn was detected outside QC limits, high, in ICVL 480-440782/7 and CCVL 480-440782/19. Associated samples, blanks and spikes in which this target analyte was detected above the MDL should be qualified as estimated high.

Al and K were detected outside QC limits, low, in ICVL 480-440782/7. Pb, Se and K were detected outside QC limits, low, in CCVL 480-440782/26. Pb and K were detected outside QC limits, low, in CCVL 480-440782/38. These target analytes should be qualified as estimated in associated samples, blanks and spikes.

## **CYANIDE**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD/Duplicate
- Field Duplicate
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Blanks.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

### **HOLDING TIMES**

All holding times were met.

**BLANKS**

All criteria were met except Cn was detected above the MDL, below the reporting limit and is qualified as estimated in CCB14 in batch #440964. Cn should be qualified as undetected at the reporting limit if it was detected below the reporting limit in the associated samples. Cn should be qualified as estimated high if it was detected above the reporting limit in the associated samples.

**LABORATORY CONTROL SAMPLE**

All criteria were met.

**MS/MSD/DUPLICATE**

All criteria were met.

**FIELD DUPLICATE**

All criteria were met except Cn was detected in X-2-100918 but was not detected in SS-02-0-0.2-100918.

**COMPOUND QUANTITATION**

All criteria were met.

**CALIBRATION**

All criteria were met.

# Data Usability Summary Report

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
TestAmerica Laboratories, Inc. #480-143535-1  
October 16-17,2018  
Reissued; May 22, 2019  
Sampling date: 10/15-16/2018

Prepared by:  
Jodi Zimmerman  
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Parsons/Tim Bayly  
# 480-143535-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package (reissued, May 22, 2019) for O'Brien and Gere Inc., project located at Parsons/Tim Bayly, Project #480-143535-1, TestAmerica Laboratories, Inc., submitted to Vali-Data of WNY, LLC on February 21, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA method Volatile Organics (8260C), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Inorganics (6010C), Mercury (7471B) and in accordance with wet chemistry methods.

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Internal Standard, Surrogate Spike Recoveries, Method Blank, Laboratory Control Samples, MS/MSD, Initial Calibration and Continuing Calibration.

## **DATA COMPLETENESS**

All criteria were met.

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**NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met except the area of 1,4-Dichlorobenzene-d<sub>4</sub> was outside QC limits, low in SB-MW-13-35.8-36.0-101618. Associated target analytes detected in this sample should be qualified as estimated high.

**SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of 1,2-Dichloroethane-d<sub>4</sub> was outside QC limits, high in Trip Blank-101518. The %Rec of 4-Bromofluorobenzene was outside QC limits, high in Trip Blank-101518 and LCS 480-441788/5. Associated target analytes in these samples should be qualified as estimated high, if detected.

**METHOD BLANK**

All criteria were met except Methylene Chloride was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-440096/3-A and MB 480-440097/3-A. This target analyte should be qualified as undetected at the reporting limit if it is detected above the MDL, below the reporting limit in associated samples. This target analyte should be qualified as estimated high if detected in the associated samples above the reporting limit. The TIC, Chlorodifluoromethane, was detected above 5ug/kg in MB 480-440096/3-A and MB 480-440097/3-A. This TIC should be qualified as estimated high if detected in the associated samples.

**FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met except Methylene Chloride was detected in SB-MW-13-9.0-10.0-101618 but was not detected in X-1-101618.

**LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec of 1,4-Dioxane was outside QC limits, high in LCS 480-441788/5. This target analyte should be qualified as estimated high in associated samples, if detected.

**MS/MSD**

All criteria were met except the %Rec of 1,1,2,2-Tetrachloroethane, 2-Butanone and 1,4-Dioxane were outside QC limits, low in SB-MW-14-10.0-13.0-101518MS/MSD. These target

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analytes should be qualified as estimated in SB-MW-14-10.0-13.0-101518MS/MSD and SB-MW-14-10.0-13.0-101518.

The %Rec of several target analytes were outside QC limits in the matrix spike or matrix spike duplicate but not both, so no further action is required.

### **COMPOUND QUANTITATION**

All criteria were met.

### **INITIAL CALIBRATION**

All criteria were met except the RRF of 1,4-Dioxane was outside ASP outer QC limits in the Initial Calibrations run on HP5973F and HP5973S and should be qualified as estimated in the associated blanks, spikes and samples.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

### **CONTINUING CALIBRATION**

All criteria were met except the %D of Dichlorodifluoromethane and Acetone was outside ASP outer QC limits in CCVIS 480-441788/3. The %D of 1,4-Dioxane was outside ASP outer QC limits in CCVIS 480-441526/3. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

### **GC/MS PERFORMANCE CHECK**

All criteria were met.

### **SEMIVOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

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The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Method Blank and MS/MSD.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the sample were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

All surrogates were outside QC limits in SB-MW-15-9.0-10.0-101518 due to dilution. No further action is required.

#### **METHOD BLANK**

All the criteria were met except two TIC's were detected above 170ug/kg in MB 480-440278/1-A. These TIC's should be qualified as estimated high if detected in the associated samples.

#### **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

#### **LABORATORY CONTROL SAMPLES**

All criteria were met.

#### **MS/MSD**

All criteria were met except the %Rec of 4-Nitrophenol, 2,4-Dinitrotoluene and Butylbenzylphthalate was outside ASP QC limits, high in SB-MW-14-10.0-13.0-101518MS/MSD and should be qualified as estimate high in SB-MW-14-10.0-13.0-101518MS/MSD and SB-MW-14-10.0-13.0-101518, if detected.

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## **COMPOUND QUANTITATION**

All criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on all target analytes whose %RSD >20.0%, with acceptable results.

## **CONTINUING CALIBRATION**

All criteria were met.

Several target analytes were outside laboratory QC limits, but within ASP limits, so no further action is required.

## **GC/MS PERFORMANCE CHECK**

All criteria were met.

## **PESTICIDES**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Laboratory Control Samples, MS/MSD and Continuing Calibration.

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**DATA COMPLETENESS**

All criteria were met.

**NARRATIVE AND DATA REPORTING FORMS**

All criteria were met except Form 3 for DS-3-B-SS-03MS was not included in the original package for SDG#DS-3-B (job#200-46653-1). That page is attached.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times for the samples were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of DCBP off column RTX-CLPII was outside QC limits, high in MB 480-440633/1-A and should be qualified as estimated high.

All surrogates were outside QC limits in SB-MW-15-9.0-10.0-101518 due to dilution. No further action is required.

The %Rec of several surrogates was outside laboratory QC limits but within ASP limits, so no further action is required.

**METHOD BLANK**

All the criteria were met.

**FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

**LABORATORY CONTROL SAMPLES**

All criteria were met except the %D between the columns of trans-Chlordane, cis-Chlordane and Endrin Aldehyde was outside QC limits in LCS 480-440633/2-A and should be qualified as estimated.

**MS/MSD**

All criteria were met except the %D between the columns of alpha-BHC, trans-Chlordane, cis-Chlordane and Methoxychlor was outside QC limits in SB-MW-14-10.0-13.0-101518MS and should be qualified as estimated. The %D between the columns of trans-Chlordane, cis-Chlordane and Methoxychlor was outside QC limits in SB-MW-14-10.0-13.0-101518MSD and should be qualified as estimated.

**COMPOUND QUANTITATION**

All criteria were met.

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## **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on all target analytes and surrogates, with acceptable results.

## **CONTINUING CALIBRATION**

All criteria were met except the %D of Toxaphene peaks 2-5 was outside QC limits off column RTX-CLPII in CCV480-441347/8. This target analyte should be qualified as estimated in the associated samples, blanks and spikes off the associated column.

## **PCB**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Laboratory Control Samples and Continuing Calibration.

## **DATA COMPLETENESS**

All criteria were met.

## **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

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## **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

## **HOLDING TIMES**

All holding times for the samples were met.

## **INTERNAL STANDARD (IS)**

All criteria were met.

## **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of DCBP off column ZB-5 was outside QC limits, high in MB 480-440193/1-A. The %Rec of DCBP off column ZB-35 was outside QC limits, high MB 480-440193/1-A, LCS 480-440193/2-A, MB 480-440759/1-A, LCS 480-440759/2-A, SB-MW-14-10.0-13.0-101518MS and X-1-101618. The %Rec of TCMX off column ZB-5 was outside QC limits, high in MB 480-440193/1-A, MB 480-440759/1-A, LCS 480-440759/2-A and SB-MW-14-10.0-13.0-101518MS. The %Rec of TCMX off column ZB-35 was outside QC limits, high in MB 480-440193/1-A. These surrogates should be qualified as estimated high in the associated samples, blanks and spikes.

## **METHOD BLANK**

All the criteria were met.

## **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

## **LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec of Aroclor 1016 was outside QC limits, high LCS 480-440193/2-A and LCS 480-440759/2-A. This target analyte should be qualified as estimated, high in these laboratory control samples and the associated samples in which they were detected.

## **MS/MSD**

All criteria were met.

## **COMPOUND QUANTITATION**

All criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were performed on target analytes and surrogates in which the %RSD >20.0%, with acceptable results.

## **CONTINUING CALIBRATION**

All criteria were met except the %D of TCMX was outside QC limits in CCVIS 480-440724/5 off column ZB-5. The %D of Aroclor 1016 peaks 1, 3, 5, Aroclor 1260 peaks 3-5, TCMX and DCBP

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was outside QC limits in CCVIS 480-440724/5 off column ZB-35. The %D of Aroclor 1221 peaks 3 and 4 were outside QC limits in CCV 480-440724/6 off column ZB-5. The %D of Aroclor 1254 peaks 1-5 and Aroclor 1221 peak 1-4 were outside QC limits in CCV 480-440724/6 off column ZB-35. The %D of Aroclor 1232 peaks 1-5 were outside QC limits in CCV 480-440724/7 off column ZB-5. The %D of Aroclor 1232 peaks 1-5 and Aroclor 1262 peaks 1-5 were outside QC limits in CCV 480-440724/7 off column ZB-35. The %D of Aroclor 1268 peaks 2-5 were outside QC limits in CCV 480-440724/8 off column ZB-5. The %D of Aroclor 1268 peaks 1, 2, 4, 5 and Aroclor 1242 peaks 1, 2, 4, 5 were outside QC limits in CCV 480-440724/8 off column ZB-35. The %D of Aroclor 1248 peaks 1, 3, 4 were outside QC limits in CCV 480-440724/8 off column ZB-5. The %D of Aroclor 1248 peaks 1-5 were outside QC limits in CCV 480-440724/8 off column ZB-35.

The %D of TCMX and Aroclor 1260 peaks 1-3 was outside QC limits in CCVIS 480-441100/5 off column ZB-5. The %D of DCBP was outside QC limits in CCVIS 480-441100/5 off column ZB-35. The %D of Aroclor 1221 peaks 1, 2 and Aroclor 1254 peaks 2-4 were outside QC limits in CCV 480-441100/6 off column ZB-5. The %D of Aroclor 1262 peaks 1, 3-5 were outside QC limits in CCV 480-441100/7 off column ZB-35. The %D of Aroclor 1268 peaks 1-5 and Aroclor 1242 peaks 1, 3, 5 off column ZB-5 were outside QC limits in CCV 480-441100/8. The %D of Aroclor 1248 peaks 1, 2, 5 were outside QC limits in CCV 480-441100/9 off column ZB-5. The %D of Aroclor 1248 peaks 2-5 were outside QC limits in CCV 480-441100/9 off column ZB-35.

The %D of Aroclor 1016 peaks 1, 3, 5, DCBP and Aroclor 1260 peaks 1-3 was outside QC limits in CCVIS 480-441644/11 off column ZB-35. The %D of Aroclor 1221 peaks 1 and 2 were outside QC limits in CCV 480-441644/6 off column ZB-5. The %D of Aroclor 1262 peaks 1-5 and Aroclor 1242 peaks 1, 3, 5 were outside QC limits in CCV 480-441644/8 off column ZB-5.

These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

Several target analytes had peaks that were outside QC limits, but ASP requires a minimum of three conforming peaks, so no further action is required.

## **METALS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD
- Field Duplicate
- Serial Dilution
- Compound Quantitation
- Calibration

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The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Blanks, Laboratory Control Samples, MS/MSD, Serial Dilutions and Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **BLANKS**

All criteria were met except Ca, Mg, Se and Mn were detected in MB 480-441226/1-A above the MDL, below the reporting limit and are qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high.

#### **LABORATORY CONTROL SAMPLE**

All criteria were met except the %Rec of Sb was outside ASP QC limits, low in LCSSRM 480-441226/2-A. This target analyte should be qualified as estimated in the associated samples.

#### **MS/MSD**

All criteria were met except the %Rec of Sb and Na was outside QC limits, low in SB-MW-14-10.0-13.0-101518MS/MSD. The %RPD of Sb, Ca, Cu and Pb was outside QC limits between SB-MW-14-10.0-13.0-101518MS and SB-MW-14-10.0-13.0-101518MSD. These target analytes should be qualified as estimated in SB-MW-14-10.0-13.0-101518 and SB-MW-14-10.0-13.0-101518MS/MSD.

#### **FIELD DUPLICATE**

All criteria were met.

#### **SERIAL DILUTION**

All criteria were met except the %D of Al, Ba, Be, Ca, Cr, Cu, Fe, Mg, Mn, K, Na, V and Zn was

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# 480-143535-1

outside QC limits in SB-MW-14-10.0-13.0-101518SD. These target analytes should be qualified as estimated in SB-MW-14-10.0-13.0-101518.

### **COMPOUND QUANTITATION**

All criteria were met.

### **CALIBRATION**

All criteria were met except Zn was detected outside QC limits, high, in ICVL 480-441867/7 and CCVL 480-441867/31. Se were detected outside QC limits, high, in CCVL 480-441867/19. Se and Zn were detected outside QC limits, high, in CCVL 480-441867/43. Mn and Zn were detected outside QC limits, high, in CCVL 480-4441867/48. Associated samples, blanks and spikes in which these target analytes were detected above the MDL should be qualified as estimated high.

Al, K, V and Na were detected outside QC limits, low, in ICVL 480-441867/7. K was detected outside QC limits, low, in CCVL 480-441867/19. Tl and Na were detected outside QC limits, low, in CCVL 480-441867/31. Al, K, Tl and Na were detected outside QC limits, low, in CCVL 480-441867/43. Tl and Na were detected outside QC limits, low, in CCVL 480-441867/48. Hg was detected outside QC limits, low in CCVL 480-442187/61. These target analytes should be qualified as estimated in associated samples, blanks and spikes.

### **GENERAL CHEMISTRY**

The following items/criteria were reviewed for this analytical suite:

- Cyanide

The items listed above were technically in compliance with the method and SOP criteria with any exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below.

### **CYANIDE**

All criteria were met except Cn was detected above the MDL, below the reporting limit and is qualified as estimated in MB 480-442547/1-A. Associated samples in which this target analyte was detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which this target analyte was detected above the reporting limit should be qualified as estimated high.

Cn was detected in X-1-101618 but was not detected in SB-MW-13-9.0-10.0-101618.

## **Data Usability Summary Report**

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
TestAmerica Laboratory SDG#200-46905-1  
March 21, 2019  
Sampling date: 1/3/2019

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
SDG# 200-46905-1



## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for O'Brien and Gere Inc., project located at Parsons/Tim Bayly, TestAmerica Laboratory, #200-46905-1 submitted to Vali-Data of WNY, LLC on February 21, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples and Canister Certification Blanks.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

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The data was not reported to 3 significant figures. This does not affect the usability of the data.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**SURROGATE SPIKE RECOVERIES**

All criteria were met.

**METHOD BLANK**

All criteria were met except 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Dichlorodifluoromethane, Ethyl benzene, Hexane, o-Xylene and Toluene were detected above the MDL, below the reporting limit in MB 200-139072/4 and are qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high.

**FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met except 1,2,4-Trimethylbenzene and Cyclohexane were detected in SV-14-010319 but were not detected in X-1-010319.

**LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec Propylene, 1,2,4-Trichlorobenzene, Naphthalene and Dichlorodifluoromethane was outside QC limits, high in LCS 200-138125/5. These target analytes should be qualified as estimated high if detected in the associated samples.

**MS/MSD/DUPLICATE**

No MS/MSD/Duplicate were performed on these samples.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

**CANISTER CERTIFICATION BLANKS**

All criteria were met except there were detects in the sample cans above the MDL, below the reporting limit. TestAmerica guarantees cleanliness to the reporting limit. Any detects of these target analytes in the samples would be qualified as 'J', so they should be considered undetected at the reporting limit.

# Data Usability Summary Report

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
TestAmerica Laboratories, Inc. SDG#460-173253-1  
March 21, 2019  
Revised; May 23, 2019  
Sampling date: 1/9-10/2019

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
SDG# 460-173253-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package (revised, May 23, 2019) for O'Brien and Gere Inc., project located at Parsons/Tim Bayly site, TestAmerica Laboratories, Inc. (TestAmerica), SDG#460-173253-1, submitted to Vali-Data of WNY, LLC on February 20, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analyses using USEPA methods VOC (8260C), SVOC (8270D SIM ID), Semi-Volatile Organics (8270D), Pesticides (8081B), PCB (8082A), Inorganics (6010C), Mercury (7470A), Cyanide (9012B) and Fluorinated Alkyl Substances (537 modified).

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

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SDG# 460-173253-1

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**SURROGATE SPIKE RECOVERIES**

All criteria were met.

**METHOD BLANK**

All criteria were met.

**FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met.

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD**

All criteria were met.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were used on target analytes in which their %RSD > 20.0% with acceptable results.

**CONTINUING CALIBRATION**

All criteria were met.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

## **SEMIVOLATILE ORGANIC COMPOUNDS (SIM ID)**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All criteria were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

**METHOD BLANK**

All the criteria were met.

**FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD**

No MS/MSD was performed on these samples.

**COMPOUND QUANTITATION**

All the criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

**SEMIVOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check



The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and MS/MSD.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

Data was not reported to 3 significant figures. This does not affect the usability of the data.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All criteria were met.

#### **INTERNAL STANDARD (IS)**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of 2-Fluorophenol was outside QC limits, low in EB1-010919. Associated target analytes in this sample should be qualified as estimated.

#### **METHOD BLANK**

All the criteria were met.

#### **FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met.

#### **LABORATORY CONTROL SAMPLES**

All criteria were met.

#### **MS/MSD**

All criteria were met except the %Rec of 2,4-Dinitrotoluene was outside ASP QC limits, high in MW-2-010919MS/MSD. This target analyte should be qualified as estimated high in MW-2-010919 and MW-2-010919MS/MSD, if it was detected.

The %Rec of Aniline was outside QC limits, low in MW-2-010919MS/MSD. The RPD of 4-Chloroaniline and Aniline was outside QC limits between MW-2-010919MS and MW-2-

010919MSD. These target analytes should be qualified as estimated in MW-2-010919 and MW-2-010919MS/MSD.

Several target analytes were outside QC limits in MW-2-010919MS but within limits in MW-2-010919MSD, so no further action is required.

#### **COMPOUND QUANTITATION**

All the criteria were met.

#### **INITIAL CALIBRATION**

All criteria were met.

Alternate forms of regression were used on target analytes in which their %RSD > 20.0% with acceptable results.

#### **CONTINUING CALIBRATION**

All criteria were met.

#### **GC/MS PERFORMANCE CHECK**

All criteria were met.

#### **PESTICIDES**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Laboratory Control Samples.

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**DATA COMPLETENESS**

All criteria were met.

**NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD**

All criteria were met.

**SURROGATE SPIKE RECOVERIES**

All criteria were met.

**METHOD BLANK**

All the criteria were met.

**FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

**LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec of Endosulfan sulfate, Endrin and Methoxychlor was outside ASP QC limits, high in LCS 460-582394/2-A off column CLP-2 and should be qualified as estimated high.

The RPD of Methoxychlor was outside ASP QC limits between the columns in LCS 460-582895/2-A and should be qualified as estimated.

**MS/MSD**

All criteria were met.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

Several peaks were outside QC limits, but ASP requires three peaks to be compliant, so no further action is required.

## **PCB**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Precision
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Laboratory Control Samples and MS/MSD.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times for the samples were met.

#### **INTERNAL STANDARD**

All criteria were met.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met.

## **METHOD BLANK**

All the criteria were met.

## **FIELD DUPLICATE SAMPLE PRECISION**

All the criteria were met.

## **LABORATORY CONTROL SAMPLES**

All criteria were met except the RPD of Aroclor 1016 and Aroclor 1260 was outside QC limits between LCS 460-582397/2-A and LCSD 460-582397/3-A. These target analytes should be qualified as estimated in the associated samples.

The %Rec of Aroclor 1016 was outside QC limits, high in LCS 460-582397/2-A off column CLP-2 and should be qualified as estimated.

## **MS/MSD**

All criteria were met except the RPD between the columns of Aroclor 1260 was outside QC limits in MW-2-010919MS/MSD and should be qualified as estimated.

## **COMPOUND QUANTITATION**

All criteria were met.

## **INITIAL CALIBRATION**

All criteria were met.

## **CONTINUING CALIBRATION**

All criteria were met.

Several target analytes had peaks that were outside QC limits, but ASP requires a minimum of three conforming peaks, so no further action is required.

## **METALS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD/Duplicate
- Field Duplicate
- Serial Dilution
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in Blanks and Calibration.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **BLANKS**

All criteria were met except Al was detected in CCB 460-582803/16 above the MDL, below the reporting limit and is qualified as estimated. Cd was detected in CCB 460-582803/164 above the MDL, below the reporting limit and is qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high.

#### **LABORATORY CONTROL SAMPLE**

All criteria were met.

#### **MS/MSD/DUPLICATE**

All criteria were met.

#### **FIELD DUPLICATE**

All criteria were met.

#### **SERIAL DILUTION**

All criteria were met.

#### **COMPOUND QUANTITATION**

All criteria were met.

## **CALIBRATION**

All criteria were met except Al, Sb, Pb and Ni were detected outside QC limits, high, in ICVL 460-582803/9. Fe, Pb and Tl were detected outside QC limits, high, in CCVL 460-582803/129. Pb and Tl were detected outside QC limits, high, in CCVL 460-582803/142. Se, Pb and Tl were detected outside QC limits, high, in CCVL 460-582803/155. Cd, Pb and Tl were detected outside QC limits, high, in CCVL 460-582803/165. Se and Tl were detected outside QC limits, high, in CCVL 460-583379/82. Se was detected outside QC limits, high, in CCVL 460-583379/142. Tl was detected outside QC limits, high, in CCVL 460-583379/155. Hg was detected outside QC limits, high, in CCV 460-584665/33-A run at 16:07. Associated samples, blanks and spikes in which these target analytes were detected should be qualified as estimated high.

Al, Sb, Ca, Cu, Mg, K, Ag, Na and V were detected outside QC limits, low, in ICVL 460-583379/9. Sb, Cu, Mg and Ag were detected outside QC limits, low, in CCVL 460-583379/56. Sb, Be, Cu, Mg and Ag were detected outside QC limits, low, in CCVL 460-583379/69. As and Cu were detected outside QC limits, low, in CCVL 460-583379/82. Sb and Pb were detected outside QC limits, low, in CCVL 460-583379/142. As, Sb and Ag were detected outside QC limits, low, in CCVL 460-583379/155. These target analytes should be qualified as estimated in the associated samples, blanks and spikes.

## **CYANIDE**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Blanks
- Laboratory Control Sample
- MS/MSD/Duplicate
- Field Duplicate
- Compound Quantitation
- Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use but are qualified below in MS/MSD.

### **DATA COMPLETENESS**

All criteria were met.

Parsons/Tim Bayly  
SDG# 460-173253-1

**NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**BLANKS**

All criteria were met.

**LABORATORY CONTROL SAMPLE**

All criteria were met.

**MS/MSD/DUPLICATE**

All criteria were met except the %Rec of Cn was outside QC limits, high in MW-2-010919MS/MSD and should be qualified as estimated in MW-2-010919MS/MSD and MW-2-010919, if detected.

**FIELD DUPLICATE**

All criteria were met.

**COMPOUND QUANTITATION**

All criteria were met.

**CALIBRATION**

All criteria were met.

**PFC IDA**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard
- Surrogate Spike Recoveries
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples



- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

#### **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries and Method Blank.

Samples; MW-16-010919 and X-1-010919 were diluted for PFHxS due to high target analyte concentration.

#### **DATA COMPLETENESS**

All criteria were met.

#### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

#### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

#### **HOLDING TIMES**

All holding times were met.

#### **INTERNAL STANDARD**

All criteria were met. The area of 13C2PFOA appeared to be outside QC limits on Form VIII for the dilutions. However, when adjusted for dilution they are within QC limits, so no further action is required.

#### **SURROGATE SPIKE RECOVERIES**

All criteria were met except the %Rec of M2-6:2 FTS in MW-2-010919MS/MSD was outside QC limits, high and should be qualified as estimated high. Associated target analytes in these spikes should be qualified as estimated if not detected or estimated low if detected.

#### **METHOD BLANK**

All the criteria were met except PFHxS was detected above the MDL, below the reporting limit and is qualified as estimated in MB 320-270405/1-A. PFBA and PFHxS were detected above the MDL, below the reporting limit and are qualified as estimated in MB 320-270656/1-A. These target analytes should be qualified as undetected at the reporting limit in associated samples in

which they were detected below the reporting limit. These target analytes should be qualified as estimated high in associated samples in which they were detected above the reporting limit.

**FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met except PFDA was detected in MW-16-010919 but was not detected in X-1-010919.

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD**

All criteria were met.

**COMPOUND QUANTITATION**

All the criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

# Data Usability Summary Report

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons  
TestAmerica Laboratories, Inc. SDG#320-46822-1  
March 18, 2019  
Sampling date: 1/10/2019

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons  
# SDG#320-46822-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for O'Brien and Gere project #68940.002.103, TestAmerica Laboratories, Inc., #SDG#320-46822-1, submitted to Vali-Data of WNY, LLC on February 14, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analysis using USEPA method Perfluorinated Hydrocarbons (537 modified).

## **PFAS IDA**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Surrogate Recoveries
- Internal Standard
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Compound Quantitation
- Initial Calibration
- Continuing Calibration

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Surrogate Spike Recoveries, Method Blank and Compound Quantitation.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

### **CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**SURROGATE RECOVERIES**

All criteria were met except the %Rec of 13C2-6:2-FTS was outside QC limits, high in MW-14-011019 and should be qualified as estimated high. Associated target analytes in this sample should be qualified as estimate low if detected or estimated if undetected.

**INTERNAL STANDARD**

All criteria were met.

**METHOD BLANK**

All the criteria were met except PFBA and PFHxS were detected above the MDL, below the reporting limit and are qualified as estimated in MB 320-271104/1-A. These target analytes should be qualified as undetected at the reporting limit if they are detected in the associated samples below the reporting limit. These target analytes should be qualified as estimated high if detected in the associated samples above the reporting limit.

**FIELD DUPLICATE SAMPLE PRECISION**

No field duplicate was acquired

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD**

No MS/MSD was acquired.

**COMPOUND QUANTITATION**

All the criteria were met except PFBA and PFHxS were detected above the MDL, below the reporting limit and are qualified as estimated in FRB2-011019. These target analytes should be qualified as undetected at the reporting limit if they are detected in the associated samples below the reporting limit. These target analytes should be qualified as estimated high if they were detected in the associated samples above the reporting limit.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

# Data Usability Summary Report

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
TestAmerica Laboratory SDG#200-47775-1  
March 27, 2019  
Sampling date: 3/12/2019

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
SDG# 200-47775-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for O'Brien and Gere Inc., project located at Parsons/Tim Bayly, TestAmerica Laboratory, #200-47775-1 submitted to Vali-Data of WNY, LLC on March 26, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Method Blank and Canister Certification Blanks.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

The data was not reported to 3 significant figures. This does not affect the usability of the data.

Parsons/Tim Bayly

SDG# 200-47775-1

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**METHOD BLANK**

All criteria were met except 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzene, Benzyl chloride, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, Carbon Disulfide, Chlorobenzene, 1,2-Dibromoethane, Naphthalene and trans-1,3-Dichloropropene were detected above the MDL, below the reporting limit in MB 200-140826/6 and are qualified as estimated. 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Benzyl chloride, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, m&p-Xylene, Naphthalene and Styrene were detected above the MDL, below the reporting limit in MB 200-140860/5 and are qualified as estimated. Associated samples in which these target analytes were detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which these target analytes were detected above the reporting limit should be qualified as estimated high.

**FIELD DUPLICATE SAMPLE PRECISION**

All criteria were met except Hexane was detected in X\_1\_031119\_031219 but was not detected in 810B\_IA\_02\_031119\_031219. 1,3,5-Trimethylbenzene, Naphthalene and Tetrachloroethene were detected in 810B\_IA\_02\_031119\_031219 but not in X\_1\_031119\_031219.

**LABORATORY CONTROL SAMPLES**

All criteria were met.

**MS/MSD/DUPLICATE**

No MS/MSD/Duplicate were performed on these samples.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

**CONTINUING CALIBRATION**

All criteria were met.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

Parsons/Tim Bayly

SDG# 200-47775-1



**CANISTER CERTIFICATION BLANKS**

All criteria were met except there were detects in the sample cans above the MDL, below the reporting limit. TestAmerica guarantees cleanliness to the reporting limit. Any detects of these target analytes in the samples would be qualified as 'J', so they should be considered undetected at the reporting limit.

## **Data Usability Summary Report**

Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
Eurofins SDG#200-48287-1 and 200-48299-1  
May 16, 2019  
Sampling date: 4/10/2019 and 4/11/2019

Prepared by:  
Jodi Zimmerman  
Vali-Data of WNY, LLC  
1514 Davis Rd.  
West Falls, NY 14170

Parsons/Tim Bayly  
SDG# 200-48287-1 and 200-48299-1

## **DELIVERABLES**

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for O'Brien and Gere Inc., project located at Parsons/Tim Bayly, Eurofins, #200-48287-1 and 200-48299-1 submitted to Vali-Data of WNY, LLC on May 1, 2019. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines. The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

## **VOLATILE ORGANIC COMPOUNDS**

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

## **OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES**

The data are acceptable for use except where qualified below in Method Blank, Laboratory Control Samples and Canister Certification Blanks.

### **DATA COMPLETENESS**

All criteria were met.

### **NARRATIVE AND DATA REPORTING FORMS**

All criteria were met.

The data was not reported to 3 significant figures. This does not affect the usability of the data.

**CHAIN OF CUSTODY AND TRAFFIC REPORTS**

All criteria were met.

**HOLDING TIMES**

All holding times were met.

**INTERNAL STANDARD (IS)**

All criteria were met.

**METHOD BLANK**

All criteria were met except Hexane was detected above the MDL, below the reporting limit in MB 200-142094/4 and MB 200-142338/5 and is qualified as estimated. Associated samples in which this target analyte was detected above the MDL and below the reporting limit should be reported with the reporting limit and 'undetected'. Associated samples in which this target analyte was detected above the reporting limit should be qualified as estimated high.

**FIELD DUPLICATE SAMPLE PRECISION**

No field duplicate was acquired.

**LABORATORY CONTROL SAMPLES**

All criteria were met except the %Rec Chloromethane was outside QC ASP limits, low in LCS 200-142338/4. This target analyte should be qualified as estimated in the associated sample.

**MS/MSD/DUPLICATE**

No MS/MSD/Duplicate were performed on these samples.

**COMPOUND QUANTITATION**

All criteria were met.

**INITIAL CALIBRATION**

All criteria were met.

The %RSD of Vinyl Chloride and Bromoform was outside QC limits in the initial calibration performed on instrument CHB on 3/27/19. The %RSD of Hexane was outside QC limits in the initial calibration performed on instrument CHB on 4/24/19. Up to two target analytes are allowed to be outside QC limits without further action.

**CONTINUING CALIBRATION**

All criteria were met except the %D of Naphthalene was outside QC limits in CCVIS 200-142094/2. This target analyte should be qualified as estimated in the associated blanks, spikes and samples.

**GC/MS PERFORMANCE CHECK**

All criteria were met.

Parsons/Tim Bayly

SDG# 200-48287-1 and 200-48299-1

**CANISTER CERTIFICATION BLANKS**

All criteria were met except there were detects in the batch sample cans above the MDL, below the reporting limit. TestAmerica guarantees cleanliness to the reporting limit. Any detects of these target analytes in the samples would be qualified as 'J', so they should be considered undetected at the reporting limit.



## Appendix J

### Waste Manifests

<b>SHIPPING DOCUMENT</b>	1. Generator ID Number <b>CE80QNY</b>	2. Page 1 of <b>1</b>	3. Emergency Response Phone <b>(877) 818-0087</b>	4. Shipping Document Tracking Number <b>ZZ 00605126</b>					
5. Generator's Name and Mailing Address <b>NYSDEC-TIM BAYLY OFF-SITE 625 BROADWAY ALBANY, NY 12233</b>		Generator's Site Address (if different than mailing address) <b>800 BROADWAY RENSSELAER, NY 12144</b>							
Generator's Phone: <b>518 724-7263</b>									
6. Transporter 1 Company Name <b>VEOLIA ES TECHNICAL SOLUTIONS</b>		U.S. EPA ID Number <b>N J D 0 3 0 6 3 1 3 6 9</b>							
7. Transporter 2 Company Name <b>FREEHOLD CARTAGE INC</b>		U.S. EPA ID Number <b>N J D 0 5 4 1 2 6 1 6 4</b>							
8. Designated Facility Name and Site Address <b>VEOLIA ES TECHNICAL SOLUTIONS 4301 INFIRMARY ROAD WEST CARROLLTON, OH 45449</b>		U.S. EPA ID Number <b>OH D 0 9 3 9 4 5 2 9 3</b>							
Facility's Phone: <b>937 859-6101</b>									
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Codes			
		No.	Type						
	1. <b>NON RCRA AND DOT NON REGULATED LIQUID</b>	<b>1</b>	<b>DF</b>	<b>250</b>	<b>P</b>	<b>NONE</b>			
	2. <b>NON RCRA AND DOT NON REGULATED SOLID</b>	<b>3</b>	<b>DF</b>	<b>1200</b>	<b>P</b>	<b>NONE</b>			
	3.								
	4.								
14. Special Handling Instructions and Additional Information <b>ER Service Contracted by VESTS - Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf + 1) W 421858 A SRRLFLIQ-NH 2) W 421854 A SRRLFCOLID-NH</b>									
15. <b>GENERATOR S/OFFEROR S CERTIFICATION:</b> I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.									
Generator's/Officer's Printed/Typed Name <b>Jesse Vollick as an agent of NYSDEC</b>					Signature <i>Jesse Vollick as an agent of NYSDEC</i>			Month Day Year <b>02 14 2019</b>	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____									
17. Transporter Acknowledgment of Receipt of Shipment									
Transporter 1 Printed/Typed Name <b>ZACHARY BESSARAB</b>					Signature <i>Zachary Bessarab</i>			Month Day Year <b>02 14 19</b>	
Transporter 2 Printed/Typed Name					Signature			Month Day Year	
18. Discrepancy									
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection									
Shipping Document Tracking Number: _____									
18b. Alternate Facility (or Generator)					U.S. EPA ID Number				
Facility's Phone: _____									
18c. Signature of Alternate Facility (or Generator)								Month Day Year	
19. Report Management Method Codes (i.e., codes for treatment, disposal, and recycling systems)									
1.		2.		3.		4.			
20. Designated Facility Owner or Operator: Certification of receipt of shipment except as noted in Item 18a									
Printed/Typed Name					Signature			Month Day Year	

GENERATOR

TRANSPORTER INT'L

DESIGNATED FACILITY

# PACKING SUMMARY

Generator Number: 657723  
 NYSDEC-TIM BAYLY OFF-SITE  
 800 Broadway  
 Rensselaer, NY 12144  
 Attn: ROB HORNUNG  
 EPA ID: CESQGNV

Manifest Number: ZZ00605126  
 Field System ID: I6  
 Work Order Number: 3230901000  
 Date Shipped: 02/14/2019

Container#: I6-3230901000-002      Waste Area:      Manifest Page/Line: 01 / 1  
 WIP: 421858      DisposalCode: SRRLFLIQ-NH      PHY State: L  
 Date Accumulated: 02/14/2019      Gen Drum ID:  
 Shipping Name: NON RCRA AND DOT NON REGULATED LIQUID  
 No. of Commons: 01      Outer Container: 551A2-DM      Inner Container:  
 Primary Waste Codes: NONE      PCB Serial #:      OOS Date: / /  
 Total Cmns Wt: ~~400~~ 250      SIC: 9199      Source: G49      Form: W101      System: H141      Cubic Ft.: 7.50  
 Individual Common Weights: 1 @ <sup>250</sup>~~400~~ (POUNDS)  

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		WATER (100%)	NONE

Container#: I6-3230901000-001      Waste Area:      Manifest Page/Line: 01 / 2  
 WIP: 421854      DisposalCode: SRRLFSOLID-NH      PHY State: S  
 Date Accumulated: 02/14/2019      Gen Drum ID:  
 Shipping Name: NON RCRA AND DOT NON REGULATED SOLID  
 No. of Commons: 03      Outer Container: 551A2-DM      Inner Container:  
 Primary Waste Codes: NONE      PCB Serial #:      OOS Date: / /  
 Total Cmns Wt: 1200      SIC: 9199      Source: G49      Form: W301      System: H141      Cubic Ft.: 7.50  
 Individual Common Weights: 400, 400, 400 (POUNDS)  

Units	Container Size	Net Weight	Chemical Name	EPA/State Codes
1	55 GAL		NON HAZ SOIL/SEDIMENT [95-100%] NON HAZ WATER [0-5%]	NONE



# Activity Report

JOB NO: 3230901000  
 BILL DOC NO 1690214532  
 GENERATOR NO 657723

WO NO: 3230901000  
 EPA ID: CESQGNV

**BILL TO: O'BRIEN & GERE ENGINEERS INC.**  
 333 West Washington Street  
 Syracuse, NY 13202  
 (518) 724-7260

**JOB SITE: NYSDEC-TIM BAYLY OFF-SITE**  
 800 Broadway  
 Rensselaer, NY 12144  
 (518) 724-7260

**CONTACT: ROB HORNING**

**CONTACT: ROB HORNING**

**MANIFEST NUMBER(S):**  
 ZZ00605126

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		02/14/2019	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PG/LN	WASTE AREA
Manifest # ZZ00605126 WIP 421858 / Approval SRRLFLIQ-NH NON HAZ WATER	1	551A2-DF	250	P	1 / 1	

Manifest # ZZ00605126  
 WIP 421854 / Approval SRRLFSOLID-NH  
 NON HAZ SOIL

3 551A2-DF 1200 P 1 / 2

--

Total Hours: 0  
 # of Containers: 4

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

# Activity Report

JOB NO: 3230901000  
 BILL DOC NO 1690214532  
 GENERATOR NO 657723

WO NO: 3230901000  
 EPA ID: CESQGNV

**BILL TO: O'BRIEN & GERE ENGINEERS INC.**  
 333 West Washington Street  
 Syracuse, NY 13202  
 (518) 724-7260

**JOB SITE: NYSDEC-TIM BAYLY OFF-SITE**  
 800 Broadway  
 Rensselaer, NY 12144  
 (518) 724-7260

**CONTACT: ROB HORNING**

**CONTACT: ROB HORNING**

**MANIFEST NUMBER(S):**  
**Non-Disposals**

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		02/14/2019	NY1

DESCRIPTION	# CONT.	CONT./CODE	QTY	UOM	PGLN	WASTE AREA
02/14/2019 Manpwr.- SUPERVISOR & ONE TECHNICAL ASSISTANT		305	1@1	HOUR	/	
			15:00 - 15:30			
02/14/2019 Manpwr.- MATERIAL PICK-UP CHARGE		989	1@1	EACH	/	
02/14/2019 Misc. - STATE REGULATORY FEES		4419	1	EACH	/	
02/14/2019 Misc. - ENERGY & SECURITY SURCHARGE		3129	1	PERCNT	/	

<b>Total Hours: 1</b>					
-----------------------	--	--	--	--	--

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.

# Activity Report

JOB NO: 3230901000  
BILL DOC NO 1690214532  
GENERATOR NO 657723

WO NO: 3230901000  
EPA ID: CESQGNV

**BILL TO: O'BRIEN & GERE ENGINEERS INC.**  
333 West Washington Street  
Syracuse, NY 13202  
(518) 724-7260

**JOB SITE: NYSDEC-TIM BAYLY OFF-SITE**  
800 Broadway  
Rensselaer, NY 12144  
(518) 724-7260

**CONTACT: ROB HORNING**

**CONTACT: ROB HORNING**

**MANIFEST NUMBER(S):**  
Non-Disposals

CUSTOMER P.O. NUMBER	PROJECT NUMBER	SHIP DATE	TERR.
		02/14/2019	NY1

**Comments:**

Signature:  as an agent  
OF NYSDEC

Print Name: Jesse Vollich as an agent  
OF NYSDEC

Customer authorizes Contractor to make changes on Customer's behalf in regards to transporters used and to perform Services, including adding or changing transporters listed on manifests. If Customer provides an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Contractor shall select only those transporters on that list when providing transportation services to Customer. If Customer does not provide an approved transporter list in writing to Contractor at the time Customer executes this Agreement, Customer authorizes Contractor to select any permitted transporter to provide transportation services to Customer.

Veolia Environmental Solutions is permitted for and has capacity to accept waste listed above in container quantities.



## Exhibits



**Exhibit A**

**1<sup>st</sup> Quarter 2019  
Groundwater Monitoring  
Report**



Woman Owned Business

# Aztech Environmental

TECHNOLOGIES

5 McCrea Hill Road • Ballston Spa, New York 12020

February 28, 2019

Mr. Josh Haugh  
Engineering Geologist  
NYSDEC – Division of Environmental Remediation  
1130 North Westcott Road  
Schenectady, New York 12306

Re: 1<sup>st</sup> Quarter, 2019 Groundwater Monitoring  
Tim Bayly Property  
800 Broadway, Rensselaer, New York  
NYSDEC Site No. C442043

Dear Mr. Haugh,

Aztech Environmental Technologies (Aztech) has prepared this report in order to update you regarding the status of groundwater monitoring at the above referenced site. This includes quarterly groundwater sampling conducted for the 1<sup>st</sup> quarter on February 14, 2019. The sampling requirements for the site are governed by the October 30, 2017 Site Management Plan (SMP).

### Groundwater Sampling

The SMP directs that three (3) shallow monitoring wells be sampled on a quarterly basis. Each of these wells (MW-5, MW-6 & MW-7) are located on the periphery of 800 Broadway. As shown on **Figure 1**, well MW-5 is located in the concrete sidewalk south of site building; well MW-6 is located in the concrete sidewalk west of the site building, and; well MW-7 is located in the paved alleyway east of the site building.

The groundwater samples were collected via low flow methods. Sampling commenced by opening each monitoring well and obtaining a static water level via an electronic meter calibrated in 0.01-foot increments. After collecting the depth to groundwater (DTW) measurement (from the top of the PVC well casing), dedicated polyethylene tubing was used to draw groundwater from each well and into a flow-thru cell where a multi-parameter water quality probe recorded the water quality field parameters (WQFPs) of temperature, pH, specific conductance, dissolved oxygen and oxidation-reduction potential (**Table 1**).

Table 1 Water Quality Field Parameters February 14, 2018						
Well ID	DTW	Temp (°C)	pH	SC (uS/cm)	DO (mg/l)	ORP mV
MW-5	11.00	12.57	6.91	11,000	5.37	131
MW-6	17.33	12.96	6.54	2,640	1.81	96
MW-7	9.20	12.77	6.65	1,580	1.30	132
<b>Note:</b> DTW = Static depth to water from top of PVC well casing prior to commencing with well purging for low flow sampling Water Quality Field Parameters recorded after stabilization/prior to sample collection						

The samples were collected and submitted to ALS Environmental (ALS) of Rochester, New York following chain of custody protocols. The samples were analyzed for the full list of volatile organic compounds (VOCs) via analytical method 8260. This includes the site compounds of concern (COC) tetrachloroethene (PCE), trichloroethene (TCE), isomers of dichloroethene (DCE) and vinyl chloride (VC).

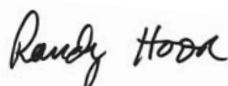
As summarized below on **Table 2**, concentrations of PCE, TCE and DCE were all identified in well MW-5. Concentrations were excess of the 5.0 microgram per liter (ug/l) standard established for these compounds in class GA groundwater by NYSDEC in their Technical and Operational Guidance Series Memorandum 1.1.1 (TOGs 1.1.1) of June, 1998 (with addendums). These concentrations represent a general increase when compared to the previous quarterly sampling event (June 14, 2018). Well MW-6 indicated isomers of DCE and VC at concentrations of 1.2 ug/l; well MW-7 did not identify reportable concentrations of any VOCs. The historic analytical results are summarized on the attached table; the laboratory analytical report is attached.

<b>Table 2</b> Summary of Groundwater Analytical Results February 14, 2019					
Compound	PCE	TCE	DCE	VC	Total CVOCs
<b>GW Stnd</b>	5.0	5.0	5.0	2.0	-
<b>MW-5</b>	<b>22</b>	<b>16</b>	<b>15</b>	< 1.0	53
<b>MW-6</b>	< 1.0	< 1.0	1.2	1.2	2.4
<b>MW-7</b>	< 1.0	< 1.0	< 1.0	< 1.0	< 40
<p><u>Notes:</u>            Concentrations in micrograms per liter (ug/l)            * Total CVOCs = sum of all chlorinated VOCs via 8260            GW Stnd = NYSDEC Standard for Class GA groundwater (TOGs 1.1.1)            Concentrations in <b>BOLD</b> are in excess of their respective GW Standard</p> <p style="text-align: right;">PCE = Tetrachloroethene            TCE = Trichloroethene            DCE = cis 1,2-Dichloroethene            VC = Vinyl Chloride</p>					

We are currently in the process of coordinating input of the 1<sup>st</sup> quarter, 2019 groundwater analytical results into the NYSDEC’s Equis database. We will advise you when that data has been successfully uploaded.

Aztech appreciates the opportunity to work with you on this project. If you have any questions regarding the information presented herein, please contact us at your convenience.

Sincerely,  
**AZTECH TECHNOLOGIES, INC.**



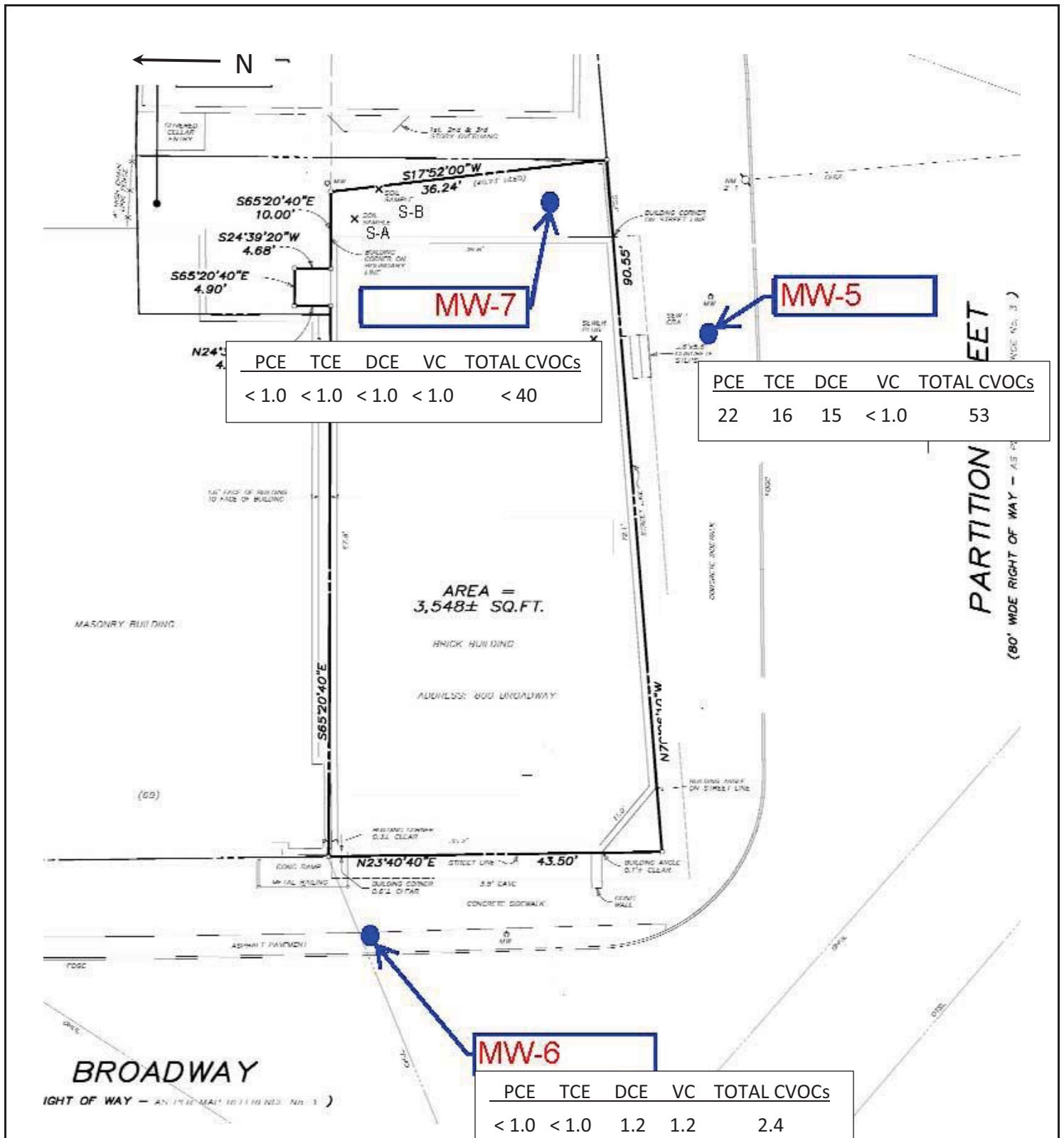
Randolph H. Hoose  
 Sr. Hydrogeologist/Project Manager

Attachments:      Site Map  
                          Summary Tables  
                          Laboratory Analytical Report

cc:            T. Bayly

## SITE MAP





Source: Hanson Van Vleet Remedial Action Work Plan

CVOCs = Chlorinated VOCs

Remediation ● Environmental ● Drilling



**SITE: Tim Bayly Property**  
800 Broadway  
Rensselaer, New York  
Site No. C442043

**FIGURE 1**

Summary of  
Groundwater Analytical  
Results – CVOCs for Site-  
Related Compounds  
(February 14, 2019)

## **ATTACHMENT A**

### **SUMMARY TABLES**

**GROUNDWATER ELEVATION TABLE**

Tim Bayly Property

800 Broadway

Rensselaer, Rensselaer County, NY

NYSDEC Site No. C442043

<b>MONITORING WELL DESIGNATION</b>		<b>MW-5</b>	<b>MW-6</b>	<b>MW-7</b>
TOP OF CASING		45.45	44.70	44.50
BOTTOM OF WELL		27.45	24.70	24.50
<b>Date</b>		<b>GROUNDWATER ELEVATIONS</b>		
2/13/2018	DTW	10.51	17.90	9.44
	GW Elev	34.94	26.80	35.06
6/14/2018	DTW	11.41	17.46	9.52
	GW Elev	34.04	27.24	34.98
2/14/2019	DTW	11.00	17.33	9.20
	GW Elev	34.45	27.37	35.30
Notes:				
GW Elev = Groundwater Elevation (ft.)				
DTW = Depth to water (ft.)				

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Tim Bayly Property  
 800 Broadway  
 Rensselaer, Rensselaer County, NY  
 NYSDEC Site No. C442043

Well ID/Date	Site Compound of Concern				
	PCE	TCE	DCE	VC	Total VOCs*
<b>GW Stnd</b>	<b>5.0</b>	<b>5.0</b>	<b>5.0</b>	<b>2.0</b>	
<b>MW-5</b>					
2/13/2018	4.8	2.1	1.7	< 1.0	8.6
6/14/2018	<b>19</b>	<b>9.4</b>	<b>8.4</b>	< 1.0	37
2/14/2019	<b>22</b>	<b>16</b>	<b>15</b>	< 1.0	53
<b>MW-6</b>					
2/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	1.4
6/14/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
2/14/2019	< 1.0	< 1.0	1.2	1.2	2.4
<b>MW-7</b>					
2/13/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 40
6/14/2018	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
2/14/2019	< 1.0	< 1.0	< 1.0	< 1.0	< 40
Notes:					
Concentrations in micrograms per liter (ug/l)					
PCE = Tetrachloroethene; TCE = Trichloroethene; DCE = cis 1,2-Dichloroethene; VC = Vinyl Chloride					
* Total VOCs = sum of all VOCs via 8260					
GW Stnd = NYSDEC Standard for Class GA groundwater (TOGs 1.1.1)					
Concentrations in <b>BOLD</b> are in excess of their respective GW Standard					

## **ATTACHMENT B**

### **LABORATORY ANALYTICAL REPORT**



February 25, 2019

Service Request No:R1901436

Mr. Randy Hoose  
Aztech Technologies  
5 McCrea Hill Road  
Ballston Spa, NY 12020

**Laboratory Results for: T. Bayly**

Dear Mr.Hoose,

Enclosed are the results of the sample(s) submitted to our laboratory February 19, 2019  
For your reference, these analyses have been assigned our service request number **R1901436**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7471. You may also contact me via email at [Brady.Kalkman@alsglobal.com](mailto:Brady.Kalkman@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Brady Kalkman  
Project Manager

**ADDRESS** 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Received:** 02/19/2019

### CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II data deliverables, including results of QC samples analyzed from this delivery group. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 02/19/2019. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 0 to 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature. If any samples were received for the analysis of pH, chlorine residual, sulfite, dissolved oxygen, or ferrous iron, the samples were analyzed past their holding time expiration since these analyses are required to be analyzed within 15 minutes of sampling.

#### Volatiles by GC/MS:

No significant anomalies were noted with this analysis.

Approved by

A handwritten signature in black ink, appearing to read "Brady Knutson", written over a horizontal line.

Date

02/25/2019



**SAMPLE DETECTION SUMMARY**

<b>CLIENT ID: MW-5</b>	<b>Lab ID: R1901436-002</b>
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Tetrachloroethene (PCE)	22		0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	16		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	15		0.23	1.0	ug/L	8260C

<b>CLIENT ID: MW-6</b>	<b>Lab ID: R1901436-003</b>
------------------------	-----------------------------

Analyte	Results	Flag	MDL	MRL	Units	Method
Vinyl Chloride	1.2		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1.2		0.23	1.0	ug/L	8260C



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Aztech Technologies  
**Project:** T. Bayly

**Service Request:**R1901436

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1901436-001	MW-7	2/14/2019	1130
R1901436-002	MW-5	2/14/2019	1225
R1901436-003	MW-6	2/14/2019	1330



# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

34154

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name <b>T. BAYLY</b>		Project Number		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																		
Project Manager <b>Kimmy Hoose</b>		Report CC		PRESERVATIVE																		
Company/Address <b>ARTECH</b>		Email <b>RHOOSE@ARTECHENV.COM</b>		NUMBER OF CONTAINERS	GC/MS VOA's • 8230 • 824 • CLP	GC/MS SVOA's • 8270 • 825	GC VOA's • 8021 • 801/802	PES/TCODS • 6091 • 609	PCBS • 8032 • 609	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION	PRESERVATIVE									
5 McCREA Hill Rd		BAUSTRON SPA, NY 12020											0. NONE									
Phone # <b>518.885.5383</b>		Sampler's Printed Name <b>TODD KOLLEND</b>											1. HCL									
Signature <i>T. Bayly</i>		Signature <i>Todd Kolend</i>											2. HNO3									
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX																	
MW-7		2.14.19	11:30	GW	3 X																	
MW-5		2.14.19	12:25	GW	3 X																	
MW-6		2.14.19	13:30	GW	3 X																	
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ____ 1 day ____ 2 day ____ 3 day ____ 4 day ____ 5 day REQUESTED REPORT DATE _____				REPORT REQUIREMENTS I. Results Only II. Results + QC Summaries (LCS, DUP, MS/MSD as required) III. Results + QC and Calibration Summaries IV. Data Validation Report with Raw Data Edata ____ Yes ____				INVOICE INFORMATION PO # BILL TO: <b>R1901436 5</b> Aztech Technologies T. Bayly										
STATE WHERE SAMPLES WERE COLLECTED												RELINQUISHED BY										
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY														
Signature <i>T. Bayly</i>		Signature <i>D. Avers</i>		Signature <i>D. Avers</i>		Signature <i>Brian M. Hines</i>		Signature <i>Gary O. Esmerian</i>														
Printed Name <b>Todd Kolend</b>		Printed Name <b>DINA AVERS</b>		Printed Name <b>DINA AVERS</b>		Printed Name <b>BRIAN M HINES</b>		Printed Name <b>GARY O. ESMERIAN</b>														
Firm <b>ARTECH</b>		Firm <b>ALS</b>		Firm <b>ALS</b>		Firm <b>ALS</b>		Firm <b>ALS</b>														
Date/Time <b>2.14.19 15:30</b>		Date/Time <b>2/14/19 15:30</b>		Date/Time <b>2/19/19</b>		Date/Time <b>2/19/19 1:50</b>		Date/Time <b>2/19/19 13:50</b>														



# Cooler Receipt and Preservation Check Form

R1901436

Aztech Technologies  
T. Bayly

5



Project/Client \_\_\_\_\_ Folder Number \_\_\_\_\_

Cooler received on 2/19/19 by: dm/BE

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y N
4	Circle: <del>Wet Ice</del> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> N NA
6	Where did the bottles originate?	ALS/ROC CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 2/19/19 Time: 1405 ID: IR#7 IR#10 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.0°	5.0°	0.71	0.3°			
Correction Factor (°C)	+0.0	-0.1	+0.0	+0.3			
Corrected Temp (°C)	1.0°	4.9°	0.71	0.6°			
Temp from: Type of bottle		40ml Vial		Cartridge			
Within 0-6°C?	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-002 by GE/dm on 2/19/19 at 1405  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: 2/19/19 Time: 2130 by: dm

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)?  YES NO
- 10. Did all bottle labels and tags agree with custody papers?  YES NO
- 11. Were correct containers used for the tests indicated?  YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated  NA

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≥		HNO <sub>3</sub>								
≤		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**	Client label					

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: Client label  
Explain all Discrepancies/ Other Comments: \_\_\_\_\_

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: dm  
PC Secondary Review: \_\_\_\_\_

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**  
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Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

## REPORT QUALIFIERS AND DEFINITIONS

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the “Notes” column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an “immediate” hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p> | <p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\geq 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ)<br/>The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

<sup>1</sup> Analyses were performed according to our laboratory’s NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.



**ALS Group USA, Corp.**  
dba ALS Environmental

Analyst Summary report

**Client:** Aztech Technologies  
**Project:** T. Bayly/

**Service Request:** R1901436

**Sample Name:** MW-7  
**Lab Code:** R1901436-001  
**Sample Matrix:** Water

**Date Collected:** 02/14/19  
**Date Received:** 02/19/19

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-5  
**Lab Code:** R1901436-002  
**Sample Matrix:** Water

**Date Collected:** 02/14/19  
**Date Received:** 02/19/19

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI

**Sample Name:** MW-6  
**Lab Code:** R1901436-003  
**Sample Matrix:** Water

**Date Collected:** 02/14/19  
**Date Received:** 02/19/19

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
DLIPANI



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
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## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 11:30  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-7  
**Lab Code:** R1901436-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	02/22/19 18:29	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	02/22/19 18:29	
1,1,2-Trichloroethane	1.0 U	1.0	1	02/22/19 18:29	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	02/22/19 18:29	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	02/22/19 18:29	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	02/22/19 18:29	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	02/22/19 18:29	
1,2-Dibromoethane	1.0 U	1.0	1	02/22/19 18:29	
1,2-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
1,2-Dichloroethane	1.0 U	1.0	1	02/22/19 18:29	
1,2-Dichloropropane	1.0 U	1.0	1	02/22/19 18:29	
1,3-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
1,4-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
1,4-Dioxane	40 U	40	1	02/22/19 18:29	
2-Butanone (MEK)	5.0 U	5.0	1	02/22/19 18:29	
2-Hexanone	5.0 U	5.0	1	02/22/19 18:29	
4-Methyl-2-pentanone	5.0 U	5.0	1	02/22/19 18:29	
Acetone	5.0 U	5.0	1	02/22/19 18:29	
Benzene	1.0 U	1.0	1	02/22/19 18:29	
Bromochloromethane	1.0 U	1.0	1	02/22/19 18:29	
Bromodichloromethane	1.0 U	1.0	1	02/22/19 18:29	
Bromoform	1.0 U	1.0	1	02/22/19 18:29	
Bromomethane	1.0 U	1.0	1	02/22/19 18:29	
Carbon Disulfide	1.0 U	1.0	1	02/22/19 18:29	
Carbon Tetrachloride	1.0 U	1.0	1	02/22/19 18:29	
Chlorobenzene	1.0 U	1.0	1	02/22/19 18:29	
Chloroethane	1.0 U	1.0	1	02/22/19 18:29	
Chloroform	1.0 U	1.0	1	02/22/19 18:29	
Chloromethane	1.0 U	1.0	1	02/22/19 18:29	
Cyclohexane	1.0 U	1.0	1	02/22/19 18:29	
Dibromochloromethane	1.0 U	1.0	1	02/22/19 18:29	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	02/22/19 18:29	
Dichloromethane	1.0 U	1.0	1	02/22/19 18:29	
Ethylbenzene	1.0 U	1.0	1	02/22/19 18:29	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	02/22/19 18:29	
Methyl Acetate	2.0 U	2.0	1	02/22/19 18:29	
Methyl tert-Butyl Ether	1.0 U	1.0	1	02/22/19 18:29	
Methylcyclohexane	1.0 U	1.0	1	02/22/19 18:29	
Styrene	1.0 U	1.0	1	02/22/19 18:29	
Tetrachloroethene (PCE)	1.0 U	1.0	1	02/22/19 18:29	
Toluene	1.0 U	1.0	1	02/22/19 18:29	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 11:30  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-7  
**Lab Code:** R1901436-001

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	02/22/19 18:29	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	02/22/19 18:29	
Vinyl Chloride	1.0 U	1.0	1	02/22/19 18:29	
cis-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 18:29	
cis-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 18:29	
m,p-Xylenes	2.0 U	2.0	1	02/22/19 18:29	
o-Xylene	1.0 U	1.0	1	02/22/19 18:29	
trans-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 18:29	
trans-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 18:29	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	02/22/19 18:29	
Dibromofluoromethane	96	89 - 119	02/22/19 18:29	
Toluene-d8	102	87 - 121	02/22/19 18:29	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 12:25  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-5  
**Lab Code:** R1901436-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	02/22/19 18:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	02/22/19 18:51	
1,1,2-Trichloroethane	1.0 U	1.0	1	02/22/19 18:51	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	02/22/19 18:51	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	02/22/19 18:51	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	02/22/19 18:51	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	02/22/19 18:51	
1,2-Dibromoethane	1.0 U	1.0	1	02/22/19 18:51	
1,2-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
1,2-Dichloroethane	1.0 U	1.0	1	02/22/19 18:51	
1,2-Dichloropropane	1.0 U	1.0	1	02/22/19 18:51	
1,3-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
1,4-Dichlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
1,4-Dioxane	40 U	40	1	02/22/19 18:51	
2-Butanone (MEK)	5.0 U	5.0	1	02/22/19 18:51	
2-Hexanone	5.0 U	5.0	1	02/22/19 18:51	
4-Methyl-2-pentanone	5.0 U	5.0	1	02/22/19 18:51	
Acetone	5.0 U	5.0	1	02/22/19 18:51	
Benzene	1.0 U	1.0	1	02/22/19 18:51	
Bromochloromethane	1.0 U	1.0	1	02/22/19 18:51	
Bromodichloromethane	1.0 U	1.0	1	02/22/19 18:51	
Bromoform	1.0 U	1.0	1	02/22/19 18:51	
Bromomethane	1.0 U	1.0	1	02/22/19 18:51	
Carbon Disulfide	1.0 U	1.0	1	02/22/19 18:51	
Carbon Tetrachloride	1.0 U	1.0	1	02/22/19 18:51	
Chlorobenzene	1.0 U	1.0	1	02/22/19 18:51	
Chloroethane	1.0 U	1.0	1	02/22/19 18:51	
Chloroform	1.0 U	1.0	1	02/22/19 18:51	
Chloromethane	1.0 U	1.0	1	02/22/19 18:51	
Cyclohexane	1.0 U	1.0	1	02/22/19 18:51	
Dibromochloromethane	1.0 U	1.0	1	02/22/19 18:51	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	02/22/19 18:51	
Dichloromethane	1.0 U	1.0	1	02/22/19 18:51	
Ethylbenzene	1.0 U	1.0	1	02/22/19 18:51	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	02/22/19 18:51	
Methyl Acetate	2.0 U	2.0	1	02/22/19 18:51	
Methyl tert-Butyl Ether	1.0 U	1.0	1	02/22/19 18:51	
Methylcyclohexane	1.0 U	1.0	1	02/22/19 18:51	
Styrene	1.0 U	1.0	1	02/22/19 18:51	
Tetrachloroethene (PCE)	<b>22</b>	1.0	1	02/22/19 18:51	
Toluene	1.0 U	1.0	1	02/22/19 18:51	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 12:25  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-5  
**Lab Code:** R1901436-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>16</b>	1.0	1	02/22/19 18:51	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	02/22/19 18:51	
Vinyl Chloride	1.0 U	1.0	1	02/22/19 18:51	
cis-1,2-Dichloroethene	<b>15</b>	1.0	1	02/22/19 18:51	
cis-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 18:51	
m,p-Xylenes	2.0 U	2.0	1	02/22/19 18:51	
o-Xylene	1.0 U	1.0	1	02/22/19 18:51	
trans-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 18:51	
trans-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 18:51	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	02/22/19 18:51	
Dibromofluoromethane	106	89 - 119	02/22/19 18:51	
Toluene-d8	112	87 - 121	02/22/19 18:51	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 13:30  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-6  
**Lab Code:** R1901436-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	02/22/19 19:13	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	02/22/19 19:13	
1,1,2-Trichloroethane	1.0 U	1.0	1	02/22/19 19:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	02/22/19 19:13	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	02/22/19 19:13	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	02/22/19 19:13	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	02/22/19 19:13	
1,2-Dibromoethane	1.0 U	1.0	1	02/22/19 19:13	
1,2-Dichlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
1,2-Dichloroethane	1.0 U	1.0	1	02/22/19 19:13	
1,2-Dichloropropane	1.0 U	1.0	1	02/22/19 19:13	
1,3-Dichlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
1,4-Dichlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
1,4-Dioxane	40 U	40	1	02/22/19 19:13	
2-Butanone (MEK)	5.0 U	5.0	1	02/22/19 19:13	
2-Hexanone	5.0 U	5.0	1	02/22/19 19:13	
4-Methyl-2-pentanone	5.0 U	5.0	1	02/22/19 19:13	
Acetone	5.0 U	5.0	1	02/22/19 19:13	
Benzene	1.0 U	1.0	1	02/22/19 19:13	
Bromochloromethane	1.0 U	1.0	1	02/22/19 19:13	
Bromodichloromethane	1.0 U	1.0	1	02/22/19 19:13	
Bromoform	1.0 U	1.0	1	02/22/19 19:13	
Bromomethane	1.0 U	1.0	1	02/22/19 19:13	
Carbon Disulfide	1.0 U	1.0	1	02/22/19 19:13	
Carbon Tetrachloride	1.0 U	1.0	1	02/22/19 19:13	
Chlorobenzene	1.0 U	1.0	1	02/22/19 19:13	
Chloroethane	1.0 U	1.0	1	02/22/19 19:13	
Chloroform	1.0 U	1.0	1	02/22/19 19:13	
Chloromethane	1.0 U	1.0	1	02/22/19 19:13	
Cyclohexane	1.0 U	1.0	1	02/22/19 19:13	
Dibromochloromethane	1.0 U	1.0	1	02/22/19 19:13	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	02/22/19 19:13	
Dichloromethane	1.0 U	1.0	1	02/22/19 19:13	
Ethylbenzene	1.0 U	1.0	1	02/22/19 19:13	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	02/22/19 19:13	
Methyl Acetate	2.0 U	2.0	1	02/22/19 19:13	
Methyl tert-Butyl Ether	1.0 U	1.0	1	02/22/19 19:13	
Methylcyclohexane	1.0 U	1.0	1	02/22/19 19:13	
Styrene	1.0 U	1.0	1	02/22/19 19:13	
Tetrachloroethene (PCE)	1.0 U	1.0	1	02/22/19 19:13	
Toluene	1.0 U	1.0	1	02/22/19 19:13	

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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** 02/14/19 13:30  
**Date Received:** 02/19/19 13:50

**Sample Name:** MW-6  
**Lab Code:** R1901436-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	02/22/19 19:13	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	02/22/19 19:13	
Vinyl Chloride	<b>1.2</b>	1.0	1	02/22/19 19:13	
cis-1,2-Dichloroethene	<b>1.2</b>	1.0	1	02/22/19 19:13	
cis-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 19:13	
m,p-Xylenes	2.0 U	2.0	1	02/22/19 19:13	
o-Xylene	1.0 U	1.0	1	02/22/19 19:13	
trans-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 19:13	
trans-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 19:13	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	02/22/19 19:13	
Dibromofluoromethane	97	89 - 119	02/22/19 19:13	
Toluene-d8	101	87 - 121	02/22/19 19:13	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	89-119	87-121
MW-7	R1901436-001	89	96	102
MW-5	R1901436-002	97	106	112
MW-6	R1901436-003	89	97	101
Method Blank	RQ1901565-05	90	96	101
Lab Control Sample	RQ1901565-03	102	107	112

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1901565-05

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	1	02/22/19 11:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	1	02/22/19 11:34	
1,1,2-Trichloroethane	1.0 U	1.0	1	02/22/19 11:34	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	1	02/22/19 11:34	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	1	02/22/19 11:34	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	1	02/22/19 11:34	
1,2,3-Trichlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
1,2,4-Trichlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	1	02/22/19 11:34	
1,2-Dibromoethane	1.0 U	1.0	1	02/22/19 11:34	
1,2-Dichlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
1,2-Dichloroethane	1.0 U	1.0	1	02/22/19 11:34	
1,2-Dichloropropane	1.0 U	1.0	1	02/22/19 11:34	
1,3-Dichlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
1,4-Dichlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
1,4-Dioxane	40 U	40	1	02/22/19 11:34	
2-Butanone (MEK)	5.0 U	5.0	1	02/22/19 11:34	
2-Hexanone	5.0 U	5.0	1	02/22/19 11:34	
4-Methyl-2-pentanone	5.0 U	5.0	1	02/22/19 11:34	
Acetone	5.0 U	5.0	1	02/22/19 11:34	
Benzene	1.0 U	1.0	1	02/22/19 11:34	
Bromochloromethane	1.0 U	1.0	1	02/22/19 11:34	
Bromodichloromethane	1.0 U	1.0	1	02/22/19 11:34	
Bromoform	1.0 U	1.0	1	02/22/19 11:34	
Bromomethane	1.0 U	1.0	1	02/22/19 11:34	
Carbon Disulfide	1.0 U	1.0	1	02/22/19 11:34	
Carbon Tetrachloride	1.0 U	1.0	1	02/22/19 11:34	
Chlorobenzene	1.0 U	1.0	1	02/22/19 11:34	
Chloroethane	1.0 U	1.0	1	02/22/19 11:34	
Chloroform	1.0 U	1.0	1	02/22/19 11:34	
Chloromethane	1.0 U	1.0	1	02/22/19 11:34	
Cyclohexane	1.0 U	1.0	1	02/22/19 11:34	
Dibromochloromethane	1.0 U	1.0	1	02/22/19 11:34	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	1	02/22/19 11:34	
Dichloromethane	1.0 U	1.0	1	02/22/19 11:34	
Ethylbenzene	1.0 U	1.0	1	02/22/19 11:34	
Isopropylbenzene (Cumene)	1.0 U	1.0	1	02/22/19 11:34	
Methyl Acetate	2.0 U	2.0	1	02/22/19 11:34	
Methyl tert-Butyl Ether	1.0 U	1.0	1	02/22/19 11:34	
Methylcyclohexane	1.0 U	1.0	1	02/22/19 11:34	
Styrene	1.0 U	1.0	1	02/22/19 11:34	
Tetrachloroethene (PCE)	1.0 U	1.0	1	02/22/19 11:34	
Toluene	1.0 U	1.0	1	02/22/19 11:34	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ1901565-05

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	1	02/22/19 11:34	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	1	02/22/19 11:34	
Vinyl Chloride	1.0 U	1.0	1	02/22/19 11:34	
cis-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 11:34	
cis-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 11:34	
m,p-Xylenes	2.0 U	2.0	1	02/22/19 11:34	
o-Xylene	1.0 U	1.0	1	02/22/19 11:34	
trans-1,2-Dichloroethene	1.0 U	1.0	1	02/22/19 11:34	
trans-1,3-Dichloropropene	1.0 U	1.0	1	02/22/19 11:34	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	02/22/19 11:34	
Dibromofluoromethane	96	89 - 119	02/22/19 11:34	
Toluene-d8	101	87 - 121	02/22/19 11:34	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Analyzed:** 02/22/19

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1901565-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	17.5	20.0	87	75-125
1,1,2,2-Tetrachloroethane	8260C	18.9	20.0	94	78-126
1,1,2-Trichloroethane	8260C	18.3	20.0	91	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	20.9	20.0	104	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	18.5	20.0	93	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	19.0	20.0	95	71-118
1,2,3-Trichlorobenzene	8260C	20.2	20.0	101	67-136
1,2,4-Trichlorobenzene	8260C	20.3	20.0	101	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	16.1	20.0	80	55-136
1,2-Dibromoethane	8260C	18.0	20.0	90	82-127
1,2-Dichlorobenzene	8260C	19.3	20.0	97	80-119
1,2-Dichloroethane	8260C	17.8	20.0	89	71-127
1,2-Dichloropropane	8260C	18.1	20.0	91	80-119
1,3-Dichlorobenzene	8260C	19.6	20.0	98	83-121
1,4-Dichlorobenzene	8260C	19.1	20.0	95	79-119
1,4-Dioxane	8260C	388	400	97	44-154
2-Butanone (MEK)	8260C	20.4	20.0	102	61-137
2-Hexanone	8260C	20.7	20.0	103	63-124
4-Methyl-2-pentanone	8260C	20.1	20.0	101	66-124
Acetone	8260C	17.4	20.0	87	40-161
Benzene	8260C	18.9	20.0	94	79-119
Bromochloromethane	8260C	18.8	20.0	94	81-126
Bromodichloromethane	8260C	16.9	20.0	85	81-123
Bromoform	8260C	14.8	20.0	74	65-146
Bromomethane	8260C	15.8	20.0	79	42-166
Carbon Disulfide	8260C	20.3	20.0	101	66-128
Carbon Tetrachloride	8260C	17.5	20.0	88	70-127
Chlorobenzene	8260C	18.9	20.0	95	80-121
Chloroethane	8260C	15.2	20.0	76	62-131
Chloroform	8260C	18.5	20.0	93	79-120
Chloromethane	8260C	17.0	20.0	85	65-135
Cyclohexane	8260C	20.6	20.0	103	69-120
Dibromochloromethane	8260C	16.4	20.0	82	72-128



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QA/QC Report

**Client:** Aztech Technologies  
**Project:** T. Bayly  
**Sample Matrix:** Water

**Service Request:** R1901436  
**Date Analyzed:** 02/22/19

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ1901565-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Dichlorodifluoromethane (CFC 12)	8260C	17.2	20.0	86	59-155
Dichloromethane	8260C	18.8	20.0	94	73-122
Ethylbenzene	8260C	18.8	20.0	94	76-120
Isopropylbenzene (Cumene)	8260C	19.0	20.0	95	77-128
Methyl Acetate	8260C	21.5	20.0	107	40-112
Methyl tert-Butyl Ether	8260C	19.4	20.0	97	75-118
Methylcyclohexane	8260C	20.7	20.0	103	51-129
Styrene	8260C	18.6	20.0	93	80-124
Tetrachloroethene (PCE)	8260C	19.7	20.0	99	72-125
Toluene	8260C	18.9	20.0	94	79-119
Trichloroethene (TCE)	8260C	18.4	20.0	92	74-122
Trichlorofluoromethane (CFC 11)	8260C	21.7	20.0	108	71-136
Vinyl Chloride	8260C	18.6	20.0	93	74-159
cis-1,2-Dichloroethene	8260C	19.3	20.0	96	80-121
cis-1,3-Dichloropropene	8260C	17.1	20.0	86	77-122
m,p-Xylenes	8260C	38.8	40.0	97	80-126
o-Xylene	8260C	18.4	20.0	92	79-123
trans-1,2-Dichloroethene	8260C	19.1	20.0	95	73-118
trans-1,3-Dichloropropene	8260C	16.4	20.0	82	71-133