Hunts Point Food Distribution Center

Construction Work Plan for the Food Center Drive Greenway

Hunts Point, Bronx, New York

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1.0 INTRODUCTION

Food Center Drive (FCD) is an artery through the commercial/industrial sector of Hunts Point. It is a circuit that provides truck access to the many food distribution facilities around its perimeter. As part of the Phase 1 projects of the South Bronx Greenway, FCD will provide direct access to the Hunts Point Landing Park as well as to the new pedestrian waterfront connection adjacent to Anheuser Busch. In future phases, a second pedestrian waterfront connection, a greenway connection along Ryawa (leading to Barretto Point Park) and a continuation of the Class 2 bikeway on Hunts Point Avenue are proposed. This project is seen by both the residential and business community as a vital link for residents and workers to access recreational opportunities and jobs. It is also envisioned as part of the larger interborough greenway system throughout the City.

In accordance with the following plans, HDR on behalf of NYCEDC is writing this Construction Work Plan to document the proposed construction of the Food Center Drive Greenway:

- The New York State Department of Environmental Conservation (NYSDEC) letter to Ms. Kay Zias of the New York City Economic Development Corporation (NYCEDC), dated December 28, 2011 in response to the the Food Center Drive Boring Scope of Work,
- The NYSDEC-approved Perimeter Site, Site Management Plan (SMP) dated December 2006, and
- The revised Worker/Department Notification Plan dated August 2011.

It is the intent of this work plan to adequately address the excavation and removal of any coal tar and purifier waste that may be encountered during the excavation work associated with the construction of the Food Center Drive Greenway. This work plan additionally establishes a framework so that construction activities for the full limits of the Greenway and water line construction will be managed in accordance with the approved December 2006 Site Management Plan for the Hunts Point Perimeter Site. This document and all of its attachments will be included as stipulations in the construction bid documents.

1.1 Site Location and Boundaries

The proposed Food Center Drive Greenway Construction will impact two NYSDEC Voluntary Cleanup Program (VCP) Sites both located along Food Center Drive (FCD) in the Hunts Point Food Distribution Center (HPFDC) of the Bronx, New York (refer to Figure 1). These two VCP sites are the Perimeter Site portion of FCD and the Con Edison areas.

The Perimeter Site portion of FCD (Site No. V00641) is part of a Voluntary Cleanup Agreement (VCA) entered into by the City of New York and NYSDEC. The Perimeter Site is a portion of a mapped right-of-way owned by the City of New York and currently managed by the NYCEDC. The portion of the Perimeter Site that underlies Food Center Drive is approximately 3,940 feet in length (0.75 mile) and has

an approximate area of 0.86 acres. The SMP for the Perimeter (included as Attachment A – Site Management Plan for Iroquois Gas Pipeline/Perimeter Site) documents engineering controls and institutional controls as part of the NYSDEC-approved remedy and is applicable to the entirety of Food Center Drive. This includes the paved surfaces of FCD and surface cover in the islands. The remainder of FCD is enrolled in the VCP (Site No. V00554) as part of a VCA entered into by Con Edison and NYSDEC.

1.2 Site History and Conditions

The Site was historically part of a Consolidated Edison of New York, Inc. (Con Edison) manufactured gas plant (MGP) which included several structures, material storage, and numerous below ground utilities. Figure 2 shows historic MGP structures located on the peninsula.

In 2002 and 2003 the Iroquois Gas Transmission System Pipeline was constructed in FCD. The Hunts Point portion of the project was specifically referred to as the Eastchester Extension Project. During construction a gas pipeline was brought on shore from the East River at Site C using horizontal directional drilling. The remaining 3800 feet of pipeline was constructed in a trench extending northward through FCD. FCD contains an extensive network of underground utilities including gas and electric conduits that bordered the proposed eastern wall of the trench and multiple identified and unidentified utility lines that bordered the proposed western side of the trench. Many of these utilities additionally continued west across FCD. As a result the location of the trench and pipeline was limited to a narrow corridor on the eastern side of the roadway, approximately 20 feet from the eastern most curb. The northern extent of the pipeline makes a 90 degree turn into Site E OU 2 and terminates at the Con Edison compressor facility. The area of the installation is now the Iroquois Easement.

FCD was previously a private street, integral to the HPFDC, under NYC Dept of Small Business jurisdiction and NYCEDC's management. In April 2007, an application was filed to map FCD as a public street per the Uniform Land Use Review Procedure (ULURP). As part of this process, utility companies with subsurface interests and relevant municipal departments of Transportation, City Planning and Environmental Protection participated in the mandated agency mapping conference and commented on the application. In accordance with ULURP requirements, public hearings were held by the community, Bronx Borough President, City Planning and City Council. The Bronx Borough President approved the changes and the ULURP process was completed in early 2009. Food Center Drive is now mapped as a one way public street with counterclockwise circulation.

The Perimeter site has been characterized during several previous investigations. Additionally, the Interim Remedial Engineering Report for the Perimeter Site Bronx, NY (January 2005) documents the remedy in place (Attachment B – Interim Remedial Engineering Report for the Perimeter Site).

Investigative activities across the HPFDC have shown that contamination exists in three (3) dominant forms: coal tar, purifier waste and petroleum contaminated soil.

Coal tar is a product of the destructive distillation of bituminous coal. It is a dark reddish brown to black, oily, viscous liquid that does not readily mix with water. It has a very strong odor, which many people find similar to mothballs or driveway sealant. Coal tars, derived from both coal carbonization and carbureted water gas processes, are complex mixtures of organic chemicals. The following two major classes of chemical compounds found in coal tar are:

- Volatile organic compounds (VOCs) characterized by benzene, toluene, ethylbenzene and xylene, which are identified by their initials as the BTEX compounds, and
- Semi-volatile organic compounds (SVOCs) known as polycyclic aromatic hydrocarbons or PAHs.

Purifier waste is typically found as a mixture of wood chips with a very strong, unpleasant burnt odor. Once exposed at the ground surface, the waste will often develop an iridescent blue color known as "Prussian blue". It contains significant quantities of chemically complexed cyanide compounds. In addition to containing chemically complexed cyanide, water which comes into contact with purifier waste is often acidic.

2.0 PROPOSED CONSTRUCTION ACTIVITIES

The proposed greenway construction along FCD is a component of the South Bronx Greenway Master Plan, released in November 2006. The plan proposed improved pedestrian and bicycle access and significant additions to the vegetation throughout the Hunts Point neighborhood. A key goal of this project is to provide a Class 1 shared pedestrian and bicycle linkage between the residential community and a new park (Hunts Point Landing) as well as future waterfront access. The greenway is also intended to encourage non-motorized commuting for some of the 16,000 employees within the HPFDC. In addition to the shared travel route, new planting and pedestrian scale lighting will be incorporated.

The Greenway construction project is 1.3 miles long with an average depth of excavation of approximately 2 feet below the existing ground surface. The construction of the 19 foot wide greenway is enabled by conversion of the street to one-way circulation, thereby gaining a vehicular lane and allowing the outer most lane and adjacent sidewalk (next to the Iroquois Easement) to be converted for use as the shared bicycle and pedestrian route, with planting. Due to varying utilities and land use conditions, the greenway will have three different cross-sections (shown on Figures 3, 4 and 5):

- Condition 1: The greenway is a 19 foot wide shared path separated from the roadway by a sloped planting strip with a 16 inch high curb.

- Condition 2: The greenway remains a 19 foot wide shared path separated from the roadway by a flush planting strip on the roadway side, protected by a 6 inch high curb.
- Condition 3: This condition occurs when the right-of way narrows from 100 foot to 80 foot at the north end of the project area, near the Produce Market entrance. The greenway is a 12 foot wide shared path adjacent to the road, without planting, with a 6 inch high curb.

In addition, the greenway will upgrade four public bus stops to include bus shelters, provide for safe crossings at truck entrances and railroad crossings, and include standard NYC Greenway signage. The existing median, with its trees and street lights, will be maintained except as required to allow trucks to cross over from one side of the one-way road to the other to access dedicated turning lanes.

In addition to the Greenway, construction activities will include the installation of approximately 1,800 linear feet of water line with an approximate excavation depth of 9 feet and 30 new catch basins and associated piping with an approximate excavation depth for the basins of 12 feet. The water line installation will begin at the southern intersection of Halleck Street and FCD (adjacent to the New Fulton Fish Market) and continue east along FCD to a termination point immediately west of the Hunts Point Landing Park (the former Farragut Street alignment). The location of the utility installations and their associated excavations are shown on Figures 6a, b and c.

3.0 SUPPLEMENTAL SITE INVESTIGATION

Dewberry-Goodkind, Inc. (Dewberry) conducted limited soil and groundwater sampling activities along FCD in support of the proposed FCD Greenway construction. The borings were located in the areas of the proposed waterline excavation, the proposed catch basin excavations, the planted area of the Greenway, and in areas near previously discovered coal tar and purifier waste deposits. In general the borings were intended to be located outside of, or adjacent to the previously investigated Perimeter Site to avoid disturbance to existing utilities. Dewberry's Soil and Groundwater Investigation Results Report (IRR), dated March 2012, is included as Attachment C – Soil and Groundwater Investigation Results Report. The following sections summarize the activities and results.

In addition to the soil borings, four test pits were implemented along the Produce Market side of the sidewalk along Food Center Drive in order to gain information on the previous construction methods/materials used on the existing corrugated metal fence posts that are located parallel to the roadway. The results of the test pits are discussed in the IRR (Attachment C – Soil and Groundwater Investigation Results Report).

3.1 Soil Sampling

On January 9, 2012, Zebra Drilling (Zebra) of Lynbrook, New York, mobilized to the site. They completed 61 soil borings designated SB-1 thru SB-61 within the Food Center Drive right-of-way. Drilling activities were observed by Henningson, Durham and Richardson Architecture & Engineering, PC (HDR) and Dewberry. HDR boring logs are provided as Attachment D – Boring Logs (HDR); Dewberry boring logs are included as Appendix A of the IRR (Attachment C – Soil and Groundwater Investigation Results Report). Additionally, in accordance with the SMP, HDR performed community air monitoring during intrusive activities. Air monitoring logs are included as Attachment E – Air Monitoring Logs.

The majority of the borings were advanced to 10 feet below the ground surface using direct push technology. A limited number of borings were advanced to a depth of 15 feet or 20 feet to facilitate the collection of groundwater samples, or identify the vertical limits of visually identified coal tar and/or purifier waste. Prior to initiating the investigation, borings locations were adjusted to avoid subsurface utilities and target areas outside of the Perimeter VCP. In most cases, the borings were moved into the adjacent sidewalk.

The thickness of the roadway materials typically ranged between 8 and 12 inches. A 5 foot long Macrocore™ sampler with dedicated liners was used to collect the samples.

Figure 7 illustrates the sampling locations along FCD. Upon retrieval of each Macrocore™, the liner was extracted from the sample sheath, cut open, and the soil column examined. Visual and olfactory evidence of contamination and MGP waste were recorded on the boring log as well as results of field screening with a photo ionization detector (PID). Soil samples were collected for laboratory analyses from 18 of the 61 soil borings.

Samples were collected for analyses of diesel range organics (C10-C44), the volatile compounds benzene, toluene, ethylbenzene and xylenes, semi-volatile organic compounds, polycyclic aromatic hydrocarbons, lead, mercury and cyanide. The targeted compounds were analyzed using the following procedures:

- Diesel range organics – analyzed in accordance with EPA SW-846 Method 8015B-DRO;
- Volatile organic compounds – analyzed in accordance with EPA SW-846 Method 8260B;
- Semi-volatile organic compounds – analyzed in accordance with EPA SW-846 Method 8270C;
- Total metals – analyzed in accordance with EPA SW-846 Method 6010B;
- Total mercury – analyzed in accordance with EPA SW-846 Method 7471A;
- Polycyclic aromatic hydrocarbons – analyzed in accordance with EPA SW-846 Method 8082A; and
- Total cyanide – analyzed in accordance with EPA SW-847 Method 9012A.

After completion of all sample collection activities, the samples were transported for analyses under chain-of-custody protocol to Test America - Edison in Edison, New Jersey, a New York State Department of Health certified laboratory.

3.2 Groundwater Sampling

As per DEC's requirements groundwater samples were collected from temporary well points installed in soil borings SB-18 and SB-23 after soil sampling was completed. Each well point consisted of a 10 foot long, 1 inch diameter, well screen attached to a solid riser extending above the ground surface. Borings SB-18 and SB-23 were extended to depths of 20 and 15 feet below grade respectively.

A groundwater sample was collected from each point using a Teflon® bailer. Samples were directly transferred into laboratory supplied glassware, labeled and transferred under chain-of-custody protocol to Test America for analysis of BTEX compounds using EPA Method SW-846 8260B.

3.3 Soil Results

A total of 18 soil samples were collected for laboratory analyses from the 61 soil borings. Detected concentrations above the New York State Restricted Use Soil Cleanup Objectives for Protection of Public Health, Commercial (SCOs) typically included polycyclic aromatic hydrocarbons (PAHs) including: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. These results are consistent with fill materials found throughout the Hunts Point Peninsula.

In addition to the PAHs, mercury in SB-34 and PCBs in SB-46 were detected above the respective SCOs at concentrations of 5.4 and 9.0 parts per million (ppm), respectively. Additionally, cyanide concentrations in borings SB-1, SB-5, SB-33, and SB-34 exceeded the SCO with detected concentrations ranging from 37.0 to 792 ppm. Elevated concentrations of cyanide may be associated with purifier waste deposits.

Tables showing results of the soil analyses are included in the Tables section of the IRR (Attachment C – Soil and Groundwater Investigation Results Report) and the laboratory analytical data package is included as Appendix B of the Dewberry IRR (Attachment C – Soil and Groundwater Investigation Results Report).

3.4 Groundwater Results

Groundwater samples collected from soil borings SB-18 and SB-23 were analyzed for BTEX compounds. The detected concentrations of BTEX in both samples were found to be below the NYSDEC standards for Class GA water. Tables showing results of the groundwater analyses are included in the Tables section of the IRR (Attachment C – Soil and Groundwater Investigation Results Report) and the laboratory analytical data package is included as Appendix B of the Dewberry IRR (Attachment C – Soil and Groundwater Investigation Results Report).

3.5 Potential Areas of MGP Impacts

Based on the analytical results discussed above and the visual and olfactory observations made by HDR and Dewberry field geologists, Figure 8 has been prepared to show the areas where MGP impacts may be encountered during excavation activities. Preliminary estimates indicate that proposed excavation may encounter approximately 2300 cubic yards of MGP waste. Post excavation sampling will be performed in areas where MGP impacted soils are encountered and excavated. Samples will be collected to document post excavation conditions. It is anticipated that this will include the 8 areas discussed below. Actual sample locations will be based on the areal extents and quantities of MGP impacted materials removed.

Below is a summary of the areas and the observations made during boring activities.

Areas 1 and 2
Excavations in Areas 1 and 2 located along the proposed waterline excavation have been identified as having the potential to encounter purifier waste material based on elevated levels of cyanide detected in samples analyzed from borings SB-1 (Area 1) and SB-5 (Area 2).

Area 3
Excavations in Area 3 located along the proposed waterline excavation have been identified as having the potential to encounter purifier waste based on blue/green staining observed on the sample collected from boring SB-10.

Area 4
Excavations in Area 4 located along the greenway construction, adjacent to a catch basin excavation have been identified as having the potential of encountering purifier waste due to elevated levels of cyanide detected in analytical results from borings SB-33 and SB-34 as well as visually identified purifier waste observed in samples collected from borings SB-34 and SB-36

Area 5

Excavations in Area 5 located along the greenway construction, adjacent to a catch basin excavation has been identified as having the potential of encountering coal tar based on visually identified coal tar observed in the sample collected from boring SB-37.

Area 6

Excavations in Area 6 located along the greenway construction and adjacent to two excavations for catch basins have been identified as having the potential of encountering coal tar or purifier waste based on the observation of staining in the sample collected from SB-38 as well as petroleum and coal tar odors in samples collected in borings SB-39, SB-40, SB-41 and SB-43.

Area 7

Excavations in Area 7 located along the greenway construction, in the area of the railway crossing and adjacent to a catch basin excavation have been identified as having the potential to encounter coal tar based on visually identified coal tar observed in the sample collected from boring SB-44, sheen observed in boring SB-45, and coal tar odors observed in SB-46 and SB-48.

Area 8

Excavations in Area 8 located near a catch basin excavation have been identified as having the potential of encountering coal tar based on tar observed in the sample collected from boring SB-57.

4.0 SITE MANAGEMENT

4.1 SMP

The SMP previously approved for the Perimeter Site provides environmental guidelines for the management of subsurface soils and fill as well as the long-term maintenance, repair and replacement of the engineering control (cover system) during and after any intrusive work which breaches the cover system. The guidelines established in the SMP are being applied to all work conducted during the FCD Greenway construction.

The SMP includes, but is not limited to, the following conditions:

- Any breach of the cover system, including for the purposes of construction or utility work, requires that upon completion of the effort, the cover be replaced as it was originally installed (for purposes of this project and consistent with the requirements of other Hunts Point VCP sites one foot of clean fill placed above a demarcation layer in landscaped areas of the Greenway will replace the former asphalt/concrete cover system in those areas). Backfill material used must be from an acceptable source (as defined in the SMP) free of potential industrial sources of chemical or petroleum contamination. The repaired area must be covered with a similar layering of

material comparable to that which was removed, and the repairs carried out in accordance with applicable City DOT specifications for the surface removed.

- During construction activities, control of surface erosion and run-off of the entire area must be maintained at all times.

- Site soil/fill that is excavated and is intended to be removed from the property must be managed, stockpiled, characterized, and properly disposed of in accordance with NYSDEC regulations.

- Prior to any construction activities, workers are to be notified of the site conditions with clear instructions regarding how the work is to proceed. Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety. A general health and safety plan (HASP) to be reviewed by any contractor involved in subsurface work and used by that contractor as a base for preparing an individual HASP has been prepared and is attached with the SMP. The contractors will have in their possession an individual HASP that has been reviewed by workers involved in intrusive work where the site cover materials will be disturbed.

- The Owner (City of New York) shall annually, or such time as NYSDEC may allow, complete and submit to the NYSDEC Certification Report beginning in the year 2007. The Certification Report shall contain a statement certifying that the institutional controls put in place, pursuant to the, Voluntary Cleanup Agreement Index No. D2-0023-00-04 (VCA) and the Declaration of Covenants and Restrictions imposed upon the fee title to the site and recorded in the Office of the New York City Register, as specified in the VCA, are still in place, have not been altered and are still effective. Additionally, the Certification Report shall specify that the remedy and protective cover have been maintained, and that the conditions at the site are fully protective of public health and the environment.

The entire SMP document and all of its stipulations and conditions are included in this document in Attachment A – Site Management Plan for Iroquois Gas Pipeline/Perimeter Site. As such all construction activities conducted during the construction of the FCD Greenway shall be in accordance with the SMP. Upon completion of the construction, the SMP will remain in place as an on-going control.

4.2 Environmental Professional

To additionally oversee compliance with the VCA and in accordance with the SMP the City will employ a qualified Environmental Professional (EP). The EP may also serve as the City's Engineer. As defined in the SMP the EP shall have the following qualifications:

- Demonstrated working knowledge of the site conditions, remedy, conditions of the approved Engineering Report, Site Management Plan, this document, and the recertification requirements that must be met upon completion of work.
- Demonstrated working knowledge of NYSDEC Part 360 and Part 375 regulations, as well as the definitions of C&D, recycling facility operating criteria, and the types and analytical criteria used for acceptance of backfill and acceptance of material for disposal at an off-site facility.
- Previous project experience showing the ability to visually identify materials that are not acceptable for reuse and/or are not acceptable as imported backfill. Such materials include: petroleum impacted soils/fills, MGP waste, industrial waste, and material that will not qualify as uncontaminated C&D even if processed.
- Previous project experience reviewing documents from proposed source or disposal facilities/locations. Reviews should include comparison of the material proposed for backfill or disposal with its anticipated application and any facility registrations and/or permits. Additionally, facility document reviews should ensure documents are current and, to the extent practicable, valid.

The EP will have authorization to request additional information to assist in making determinations for off-site disposal and/or acceptance of imported material. Following approvals the EP will document information relevant to site recertification including:

- Disposal or source facilities,
- Applicable facility permits and/or registrations,
- Volumes of material imported or exported,
- Sampling data applicable to material acceptance (at the site or a off-site facility),
- Documentation from facilities showing acceptance of materials prior to shipment off-site,
- Documentation that imported material was physically inspected and visually met the criteria set forth in the SMP (for unregulated material this includes: no odors of petroleum or other chemicals, staining or discoloration), and
- Documentation of excavation areas and areas where MGP waste was encountered.

The EP will be required to provide a Construction Completion Report (CCR) that includes the signature and stamp of a New York State Professional Engineer certifying that work has been completed in accordance with the VCA, SMP and this Construction Work Plan. The CCR will document all visible signs of MGP waste (including coal tar and purifier waste) encountered in the excavations, including those along the floor and side-walls of the excavations. It shall additionally include a statement certifying that all areas have been recapped and are in compliance with the approved engineering controls. The completion report will be submitted to NYSDEC for review and approval and conditions will be additionally documented in the Annual Periodic Review Report submitted for the Perimeter Site.

5.0 HASP

Individual HASPs should be developed and submitted to the EP in accordance with the SMP and NYSDEC approved general HASP template. The individual HASP will apply to all construction activities that will encounter subsurface soils. The general HASP template has been included in this document as Attachment F – Post VCP Health and Safety Plan Template.

The body can come into contact with contaminants found in the subsurface through three primary routes of exposure:

- Inhalation: Breathing of gases, vapors, dusts or mists is a common route of exposure. Chemicals can enter and irritate the nose, air passages and lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream. The blood can then carry these substances to the rest of the body.
- Direct Contact: Contaminants touching the skin or eyes is also a route of exposure. Some substances are absorbed through the skin and enter the bloodstream. Broken, cut or cracked skin will allow substances to enter the body more easily.
- Ingestion: Swallowing of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, cigarettes, utensils or hands can be swallowed. Substances can be absorbed into the blood and then transported to the rest of the body.

To reduce the potential for worker exposure to contaminants found in the site soils, fill and/or groundwater, the individual HASP that is prepared by the contractor shall be followed during all field activities. It should be reviewed and signed by all workers involved in intrusive work and shall be maintained on-site during all related activities.

6.0 MATERIAL HANDLING

During the proposed construction activities, precautions should be taken with regard to exposure to, handling, and the ultimate disposition of subsurface soils and MGP wastes to protect the safety of site workers and the surrounding community. These protocols are additionally intended to maintain compliance with the NYSDEC approved SMP discussed above.

6.1 Excavation

Proposed installations that will require deep excavation (typically greater than 2 feet 6 inches) include 30 new catch basins and their associated piping, repairs to the existing rail crossing and a water line. Proposed installations that will require shallow excavations (typically between 1 foot 10 inches and 2 feet 6 inches) include new median crossovers, greenway installations, and landscaping improvements.

Additionally, the interior lanes of Food Center Drive will be resurfaced; it is not anticipated that the resurfacing will expose subsurface soils. The installations discussed above are additionally shown on Figures 6a, b, and c. All excavation, on-site handling, on-site transportation and stockpiling of soils shall be in accordance with the SMP and be overseen by the EP.

Surface materials removed during demolition are generally classified as uncontaminated construction and demolition debris (C&D) and include the following:

- Asphalt millings resulting from resurfacing of the interior lanes,
- Asphalt removed during the roadway demolition that is free of soils and fill materials,
- Concrete removed during the roadway, sidewalk and/or curb demolition that is free of soils and fill materials,
- Concrete structures removed during the abandonment of catch basins or utilities that are free of soils and fill materials, and
- Above ground concrete structures.

Subsurface soils (excavated from below the pavement) include the following classifications:

- Historic Fill (Industrial Waste): Non-hazardous contaminated soils and fill as defined in NYSDEC Division of Solid Waste Materials 6 NYCRR Part 360, Solid Waste Management Facilities 360-1.2(b)(88).

- Manufactured Gas Plant (MGP) waste (additional classified as industrial or hazardous waste)
    - Coal tar
    - Purifier waste

- Suspect Material: Material excavated by the Contractor, for any purpose, that the EP deems may have a restriction for reuse as backfill or may require further sampling, analysis or special disposal (such as soils exhibiting evidence of gross petroleum contamination).

- Hazardous soils and fill: Material excavated by the Contractor for any purpose that has been stockpiled and sampled for disposal and subsequently tests hazardous as defined in 40 CFR, Part 261.20 Subpart C- Characteristics of Hazardous Waste or material that would be included in NYSDEC 6NYCRR Part 371, Identification and Listing of Hazardous Wastes. The variable nature of historic fills and industrial waste can result in isolated soils exceeding the toxicity characteristic leaching procedure (TCLP) limits for hazardous waste for compounds such as lead.

During all site excavations, historic fill and MGP waste will be visually identified by the EP and segregated. MGP waste will be stockpiled in accordance with Section 6.2 and excavated historic fill shall

be re-used in accordance with Section 6.3, so far as practicable, in backfilling. It is the intent of this project to reuse as much suitable material as possible on-site during construction. Construction sequencing and scheduling will be evaluated to additionally encourage reuse. Excess historic fill that cannot be reused will be stockpiled in accordance with Section 6.4. All excavations will be secured by the Contractor, meeting all required Federal, State and Local stipulations.

All excavations for construction will be advanced to pre-determined depths in accordance with final design drawings. Excavations that encounter MGP waste (as identified by the EP) will additionally be advanced vertically until MGP waste meets one of the following criteria: it can no longer be identified visually in the bottom of the excavation; the native clay layer is encountered; or until the infiltration of groundwater into the excavation limits the removal of additional waste within the horizontal limits of the excavation. Excavations will only be advanced horizontally to the extent necessary for the proposed installation or construction.

During excavation of soil, the Contractor will segregate material suitable for backfill. If material cannot be immediately used for backfilling, it will be stockpiled. MGP waste or other material deemed unsuitable for backfill by the EP and/or engineer will be segregated for stockpiling, sampling and off-site disposal. If the EP identifies any soil encountered that appears to contain unknown contaminants (based on visual, odor, or other observations), or that varies substantially from the material originally identified, it will be segregated for further evaluation.

Equipment used during soil excavation will be inspected and/or decontaminated before leaving the excavation area. Any vehicle carrying MGP waste will also be decontaminated if material suitable for reuse is to be carried in it.

The Contractor will design and construct a decontamination station to be used to decontaminate equipment and vehicles prior to exit from excavation area. At a minimum, this station shall include a high-pressure water wash area for equipment and vehicles.

6.2 Stockpiling

If material cannot be immediately used for backfilling, it will be placed on a minimum of 20 mil. or equivalent plastic ground cloth and cover by minimum of 10 mil. polyethylene sheeting or equivalent to protect against leaching or runoff of contaminants into groundwater or stormwater. The sheeting will be weighted/secured by appropriate means and seams will be sealed or overlapped to prevent tearing or removal by weather. Care will also be taken to ensure materials stockpiled for reuse are secured and do not become comingled or mixed with MGP waste or other materials identified by the EP as unsuitable for backfill. Individual stockpiles shall not exceed 500 cubic yards.

MGP waste or other material deemed unsuitable for backfill after visual inspection by the EP will be stockpiled for sampling and ultimate off-site disposal. Stockpiles will be protected to the same requirements stated above. Materials stockpiled for off-site disposal will also be secured to ensure they do not become comingled or mixed with materials to be reused. Additionally, stockpiles sampled for off-site disposal will be documented and tracked using a stockpile tracking form. An example form is included in Attachment G – Stockpile Tracking Form. Individual stockpiles shall not exceed 500 cubic yards.

There are currently 3 stockpile alternatives being evaluated. These locations are shown on Figure 9 and include a portion of A OU-1 (now paved as auxiliary parking for the New Fulton Fish Market) and the former Viele Avenue, an unused portion of the Department of Sanitation marine transfer station and/or a portion of Site A OU-2. If stockpiling is to occur on unpaved portions of Site A, stockpile areas as well as entrance and exit routes will be reinforced with 6 to 8 inches of gravel or RCA (RCA will be from a permitted/registered NYSDEC recycling facility). The gravel base is intended to prevent stockpiling operations from impacting subsurface soils. This base material will be inspected daily by the contractor and EP to ensure it is competent during all stockpiling activities.

Final stockpile locations will be determined based on lease negotiations and final approvals required by current site occupants. It is intended that multiple stockpile locations will allow for the stockpiling of MGP waste on paved areas segregated from historic fills with the potential for reuse and or disposal at a lower cost. It is anticipated that MGP waste would not be stockpiled on an unpaved surface in order to avoid any impacts through the surface. If additional locations are identified, they will be presented to NYSDEC for review and approval. Appropriate erosion controls will be employed for any soil stockpile formed during this activity. Stockpiles containing MGP waste contaminated with coal tar and/or purifier waste will be removed from the Site and properly disposed within 90 days.

6.3 Soil/Fill Reuse

In accordance with Section 5 of the SMP, site soils and fill identified by the EP as being free of visual impacts from MGP waste, may be used as backfill below the site cap. The following excavations are anticipated to generate soils that may potentially be reused as backfill in the same or similar excavations on-site:

- 30 new catch basins and associated piping;
- Water line;
- New median crossovers;
- Railway crossings; and
- Greenway installations and landscape improvements.

In general, these site materials will be used to backfill the same or similar excavations or will be placed to increase site grades. Specific excavations and areas designated to accept site soils may include:

- Surrounding the 30 newly installed catch basins and associated piping;
- The excavations resulting from the abandonment of the existing catch basins;
- Surrounding the newly installed water line;
- Below the greenway cap (the existing grade is being increased); and
- In excavations resulting from the segregation and disposal of visually identified MGP waste.

As discussed previously, excavated on-site soil/fill that appears to the EP to be visually impacted by either coal tar or purifier waste materials will be segregated from material proposed to be used as backfill. The visually impacted material will be sampled and analyzed for proper off-Site disposal. Additionally, all on-site soils reused will ultimately be placed beneath the site cap. Total subsurface soil excavation volumes are estimated at approximately 13,000 cubic yards. Excess soils that cannot be reused (due to geotechnical characteristics and/or volume restrictions) will be disposed of in accordance with Section 6.4. Concrete and asphalt generated during roadway and sidewalk demolition will also be disposed of in accordance with Section 6.4.

6.4 Material Characterization and Disposal

All soils stockpiled for off-site disposal will be properly sampled, analyzed and characterized. This process includes requesting all field/laboratory analyses that are needed to obtain disposal facility approval.

At a minimum, soils stockpiled for off-site disposal shall be sampled at a frequency of one (1) composite sample per 500 cubic yards. Each sample, with the exception of VOC analyses, will consist of a minimum of five (5) grab samples collected from greater than two (2) feet below the stockpile surface. The composite samples shall, at a minimum, be analyzed for:

- Resource Conservation and Recovery Act (RCRA) hazardous waste characteristics (ignitability, reactivity, corrosivity),
- Full Toxicity Characteristic Leaching Procedure (TCLP) (including RCRA metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, and herbicides),
- Total petroleum hydrocarbons (TPH) and
- Polychlorinated biphenyls (PCBs).

Individual disposal facilities may require more extensive sampling in order to meet the requirements of their operating permits. Sample containers will be marked and identified with labels indicating the project name, sample location and/or container, the sample number, the date and time of sampling,

preservatives utilized and other information that may be useful in determining the character of the sample. All samples will be transported to the laboratory under chain-of-custody protocol. Stockpile sampling will be recorded on the Stockpile tracking form.

All handling, sampling, loading, transportation, and disposal of hazardous and non-hazardous materials shall be in accordance with applicable Federal, State, and Local statutes and regulations. Proposed waste transporters and disposal facilities will be identified prior to the start of excavation and provided to the EP. Prior to material transport, a signed letter of agreement to accept waste as characterized will be provided by the disposal facility. The letter shall indicate agreement to handle and accept the specified estimated quantities and types of material during the time period specified. Additionally, the letter should indicate that the material may be accepted under the facilities current operating permit.

A listing of permits/licenses/letters of approval/other authorizations to operate that are currently held and valid for the proposed facility will be reviewed. Final weigh tickets and corresponding manifests will be provided to NYSDEC upon completion of the construction. The EP will review and approve all disposal documentation prior to the transport of any materials for off-site disposal.

All trucks will be inspected to ensure that contaminated soils adhering to the wheels or under carriage are removed prior to the vehicle leaving the site. Trucks used for hauling will be protected against contamination by properly covering and lining them with compatible material (such as polyethylene) or by decontaminating the vehicles prior to any use other than hauling contaminated materials. If any spillage along Food Center Drive occurs from the trucks associated with this effort, the spillage will be cleaned up.

Site soils are regulated and may not be transported to or disposed of at a NYSDEC recycling facility with the exception of asphalt removed during the roadway demolition, concrete removed during the demolition of roadway, sidewalks, and/or curbs, concrete structures removed during the abandonment of catch basins, or above ground concrete structures. Prior to removal to a NYSDEC permitted or registered recycling facility the EP will ensure that all C&D is free from site soils and fill materials. Following material disposal, records will be made available for review should they be requested. Current estimates anticipate the removal of 6,400 cubic yards of asphalt and concrete materials during roadway, sidewalk, and catch basin demolition.

7.0 EROSION CONTROLS AND STORM WATER MANAGEMENT

A Storm Water Pollution Prevention Plan (SWPPP) will be developed that will minimize the pollutants entering the storm sewer systems in compliance with the New York's State Pollutant Discharge Elimination System (SPDES) General Permit for Storm Water Runoff from Construction Activity, GP-0-

10-001, issued pursuant to Article 17, Titles 7, 8 and Article 70 of the Environmental Conservation Law (ECL).

The Contractor will retain the services of an independent Licensed/Certified Professional with practical experience in the principles and practices of erosion and sediment control and Stormwater management, to prepare and certify a site specific SWPPP, along with all necessary shop drawings.

The SWPPP will be developed with the objective of compliance with water quality standards and will take into account the topography of the subject area. It will also identify potential sources of contaminants and pollution at the project site that may reasonably be expected to affect the quality of stormwater discharges. All practices included in the SWPPP shall be designed in conformance with the most current version of the New York State Standard and Specifications for Erosion and Sediment Control.

The SWPPP will at a minimum include, but not be limited to, the following control measures:

1. Staked straw bales
2. Reinforced silt fence
3. Temporary sediment trap with filter
4. Temporary sediment filter
5. Portable sediment tank
6. Storm drain inlet protection measures
7. Temporary seeding of disturbed areas (if required)
8. Stabilized construction entrance

A construction phasing plan will also be included and will address sequence of operations describing the intended order of construction activities, including roadway demolition (asphalt and concrete removal), excavation and grading, utility and infrastructure installation and any other activity at the site that results in soil disturbance. A schedule that identifies the timing of initial placement or implementation of each erosion and sediment control practice and the minimum time frames that each practice should remain in place or be implemented will also be included.

The proposed stockpile locations will additionally be covered in the SWPPP ensuring that contaminants will not migrate from or impact the stockpile areas. Work shall not begin until a permit identification number is issued by the NYSDEC and an initial inspection is conducted by the Qualified Inspector certifying that the appropriate control measures specified in the SWPPP have been adequately implemented to the satisfaction of the Engineer.

8.0 CONSTRUCTION DEWATERING

All construction dewatering will include proper removal and disposal of contaminated groundwater and decontamination water generated during construction operations. The Contractor will be required to containerize and remove contaminated water for off-site disposal. Methods will be compatible with the construction work and the duration of time that will require dewatering.

Dewatering methods will be documented as well as all operations associated with the handling, sampling and disposal of contaminated water, ensuring that the activities are in compliance with applicable Federal, State and Local statutes and regulations.

A plan for transport and disposal at an off-site waste disposal facility will be established by the contractor and reviewed by the EP. All water being transported for off-site disposal will be properly sampled and characterized prior to removal from the site. This process includes collection of all field/laboratory samples with analyses that is needed to obtain disposal facility approval. All handling, sampling, loading, transportation, and disposal of contaminated water will be in accordance with applicable Federal, State, and Local statutes and regulations.

Proposed transporters and disposal facilities will be identified prior to the start of dewatering and reviewed by the EP. Prior to material transport, a signed letter of agreement to accept water as characterized will be provided. The letter shall indicate the disposal facility's agreement to handle and accept the specified estimated quantities and during the time period specified. Additionally, the letter should indicate that the material may be accepted under the facility's current operating permit. The EP will review and approve all disposal documentation prior to the transport of any water for off-site disposal.

9.0 COMMUNITY AIR MONITORING PLAN

Monitoring of VOCs and particulate matter will be required during all intrusive activities. A generic Community Air Monitoring Plan (CAMP) has been included in as Attachment H – NYSDOH Generic CAMP. Continuous monitoring for particulate matter will be conducted by the EP along the upwind and downwind perimeters of the excavation area. Continuous monitoring for VOCs will be conducted at the downwind perimeter of the excavation area, with upwind readings collected at the start of each day and periodically thereafter to establish background conditions. Data will be reported as 15-minute running averages and compared to alert/action levels detailed in the CAMP. Appropriate measures will be taken in response to exceedances of the alert/action levels.

In accordance with the contractual obligation of the VCA all 15-minute readings must be recorded and be available for NYSDEC and NYSDOH personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded and available.

10.0 SITE CAP

The purpose of the site cap or surface cover system is to eliminate the potential for human contact with fill material, eliminate the potential for contaminated runoff from the property, and prevent infiltration of surface water through the fill. In general the cover system consists of the following:

- A minimum of 6 inches of asphalt and sub-base material located in the traffic lanes and bike/pedestrian pathway.
- One foot of clean fill placed above a demarcation layer in landscaped areas of the Greenway.
- Two railway crossings consisting of 12 inches of ballast overlain with rubber.

Cross sections of the cover system are shown on Figure 10.

The SMP additionally provides environmental guidelines for the management of subsurface soils/fill and the long-term maintenance/replacement of the cover system during and after any intrusive work.

10.1 Imported Materials

Off-site soils imported for use as backfill must be in accordance with the provisions of the SMP and reviewed by the EP. The SMP describes the specific requirements for materials:

- Originating from a NYSDEC permitted or registered recycling facility
- Recycled Portland cement concrete aggregate (RCA)
- Non-regulated soil and sand
- Non-regulated gravel and rock

The requirements and protocols will be followed for all materials imported to the site.

FIGURES



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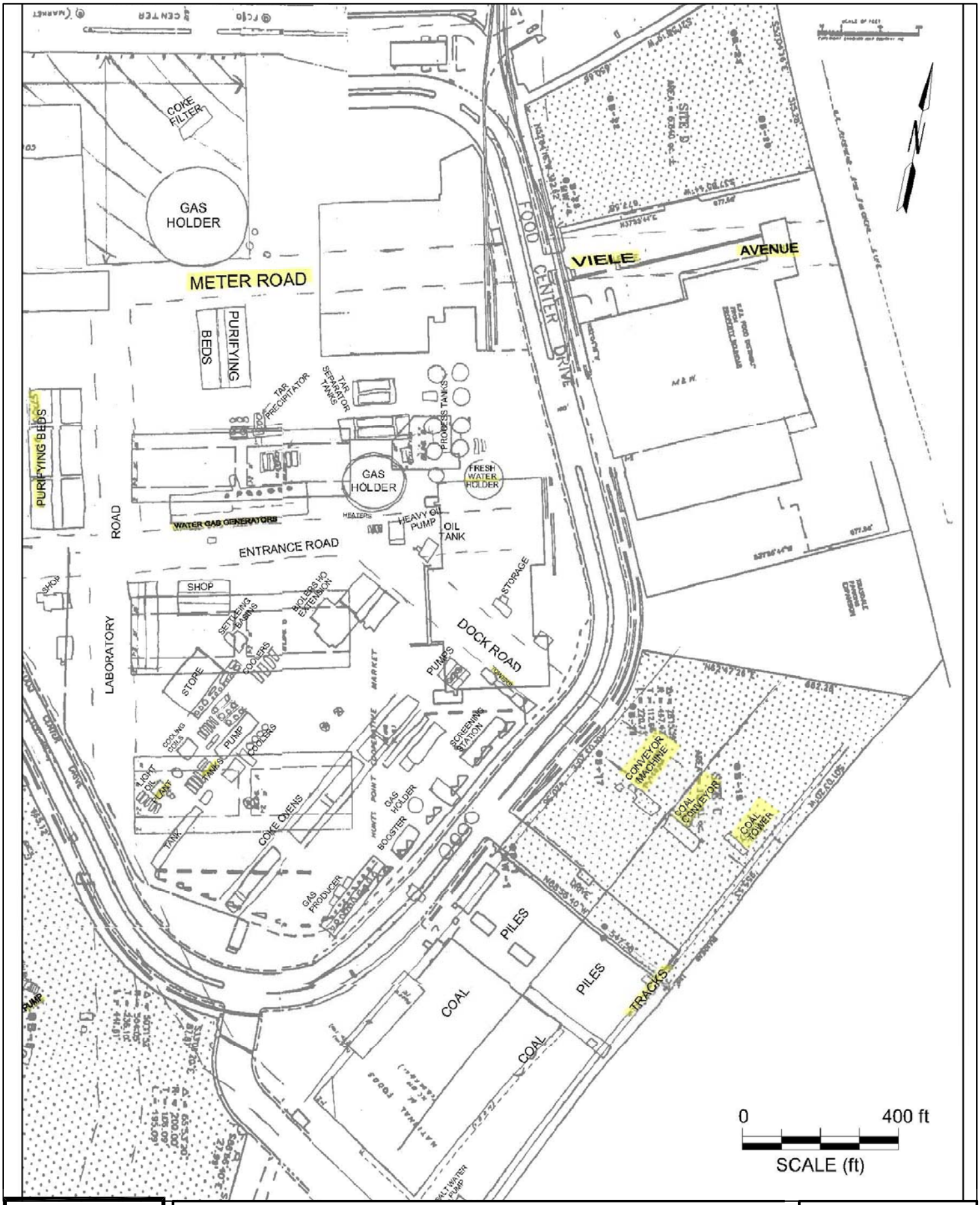
Hennlngson, Durham & Richardson Architecture and Engineering, P.C.
In association with HDR Engineering, Inc.

Food Center Drive - Site Location

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

FIGURE
1



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Historic MGP Structures

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

FIGURE
2



SOURCE: MATHEWS NIELSON LANDSCAPE ARCHITECTS, GREENWAY SECTION A, SLOPED PLANTING STRIP

(NOT TO SCALE)

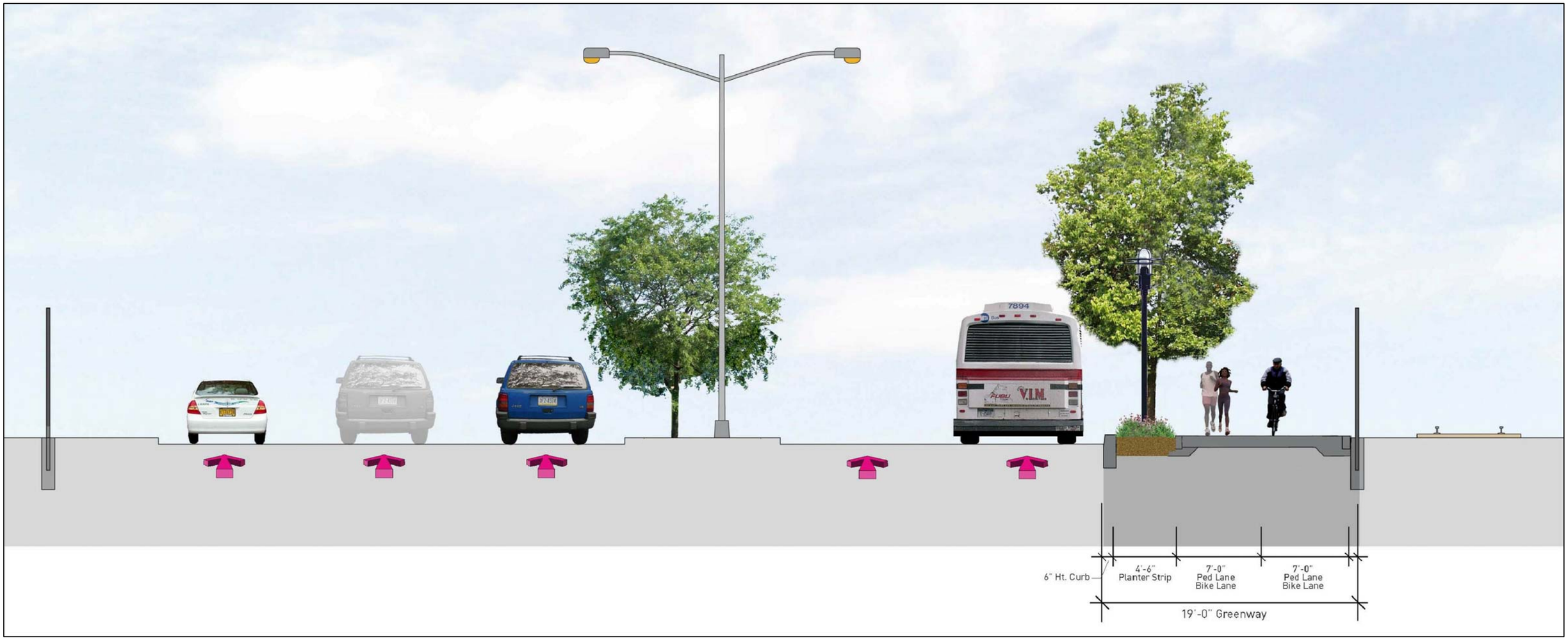
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Greenway Construction - Condition 1

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

FIGURE
3



SOURCE: MATHEWS NIELSON LANDSCAPE ARCHITECTS, GREENWAY SECTION B, FLUSH PLANTING STRIP

(NOT TO SCALE)

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Greenway Construction - Condition 2

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

FIGURE
4



SOURCE: MATHEWS NIELSON LANDSCAPE ARCHITECTS, GREENWAY SECTION C, NO PLANTING STRIP

(NOT TO SCALE)

HDR

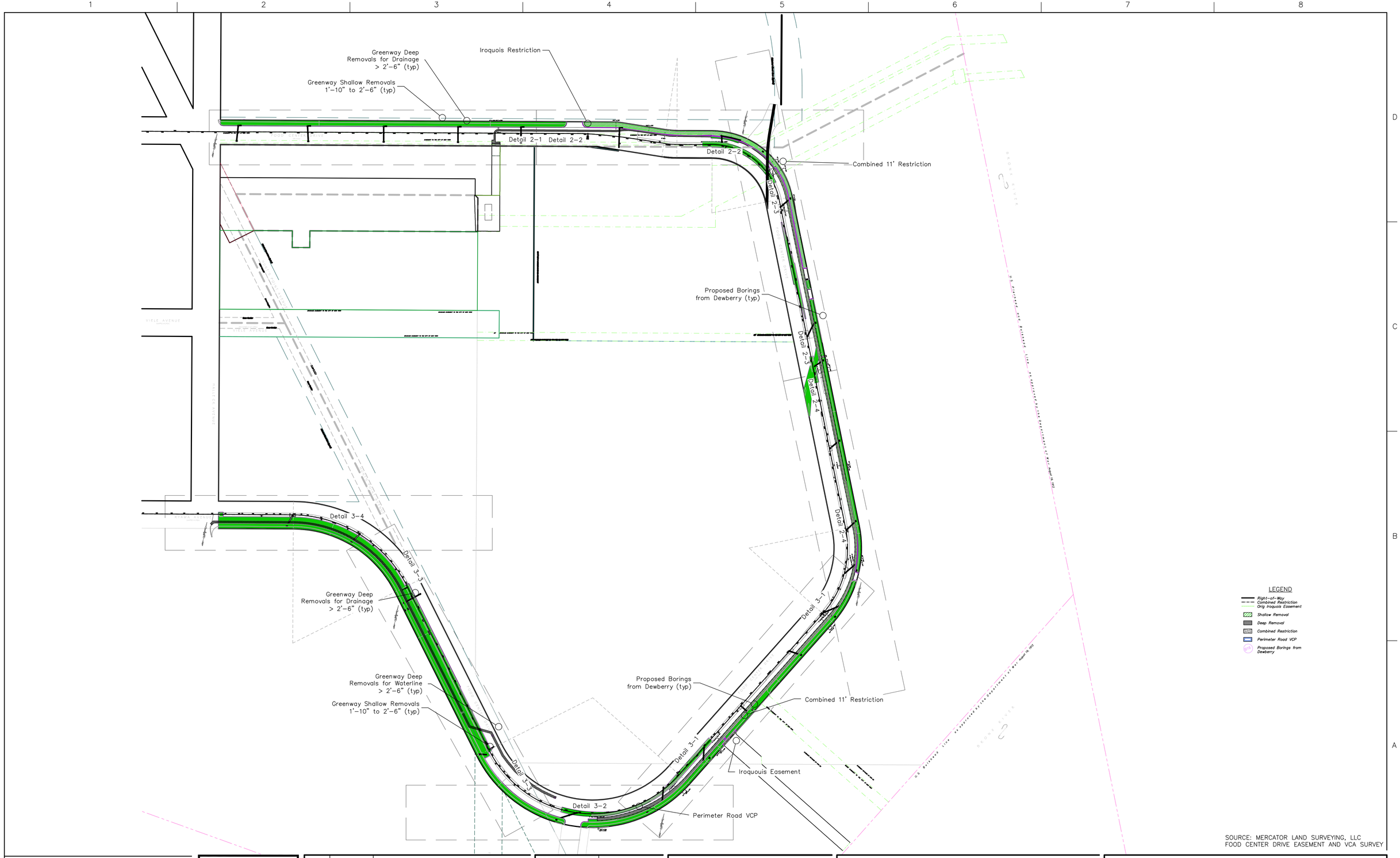
Henningson, Durham & Richardson Architecture and Engineering, P.C.
In association with HDR Engineering, Inc.

Greenway Construction - Condition 3

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

FIGURE
5



SOURCE: MERCATOR LAND SURVEYING, LLC
FOOD CENTER DRIVE EASEMENT AND VCA SURVEY

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Henningson, Durham & Richardson, Architecture and Engineering, P.C. in Association with HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
PROJECT NUMBER	

CONSTRUCTION WORK PLAN FOR THE FOOD CENTER DRIVE GREENWAY

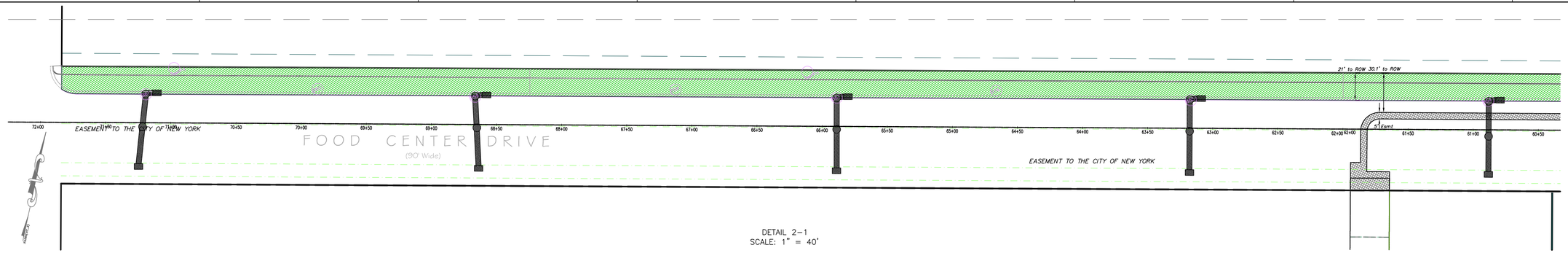
HUNTS POINT, NEW YORK

EXCAVATION AND UTILITY INSTALLATIONS - FULL SITE

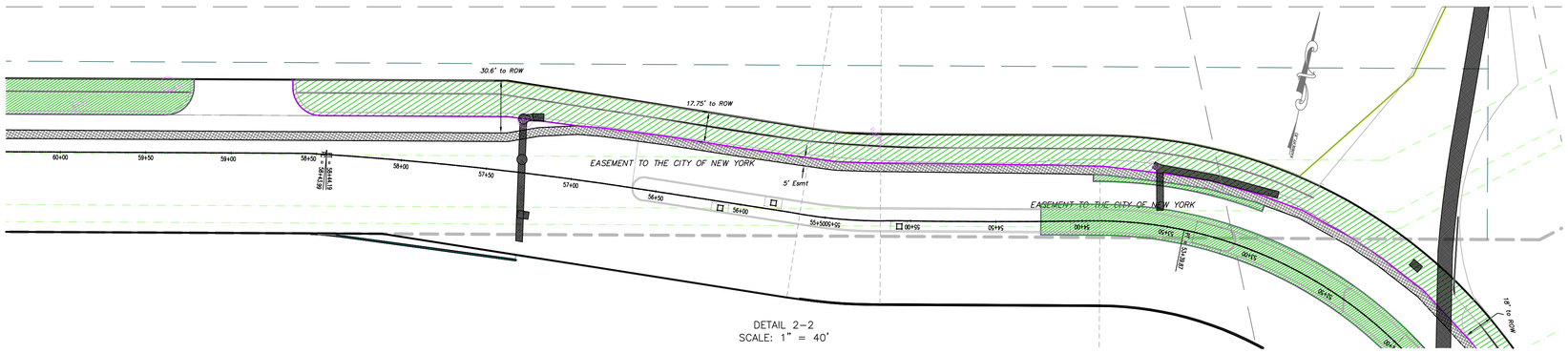
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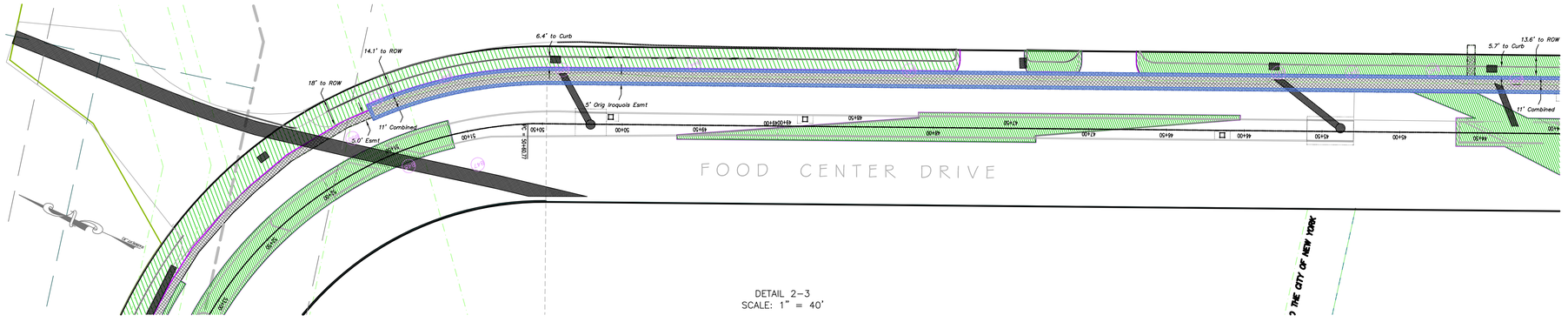
SHEET **6a**



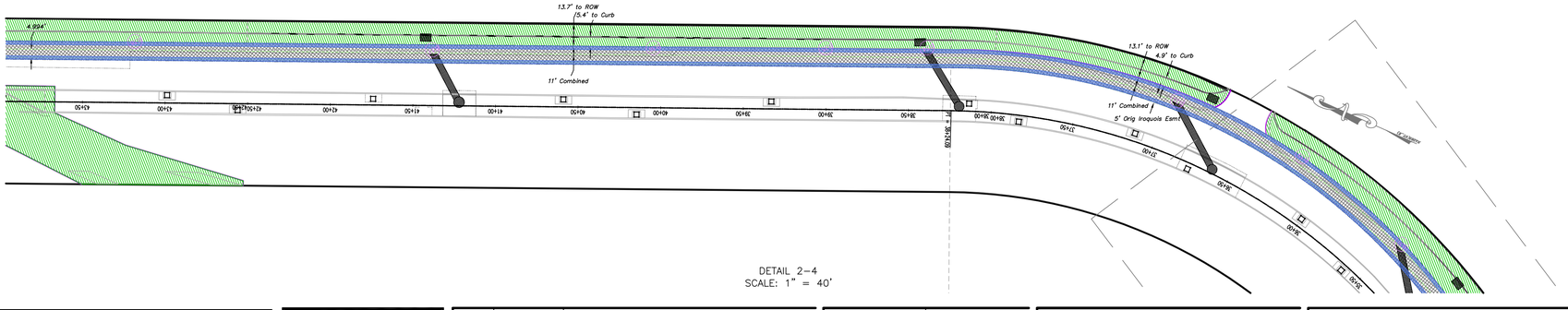
DETAIL 2-1
SCALE: 1" = 40'



DETAIL 2-2
SCALE: 1" = 40'



DETAIL 2-3
SCALE: 1" = 40'



DETAIL 2-4
SCALE: 1" = 40'

LEGEND
- Right-of-Way
- Combined Restriction
- Orig Iroquois Easement
- Shallow Removal
- Deep Removal
- Combined Restriction
- Perimeter Road VCP
- Proposed Borings from Dewberry

SOURCE: MERCATOR LAND SURVEYING, LLC
FOOD CENTER DRIVE EASEMENT AND VCA SURVEY

HDR
Henningson, Durham & Richardson, Architecture and Engineering, P.C. in Association with HDR Engineering, Inc.

ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	
PROJECT NUMBER	

CONSTRUCTION WORK PLAN FOR THE FOOD CENTER DRIVE GREENWAY

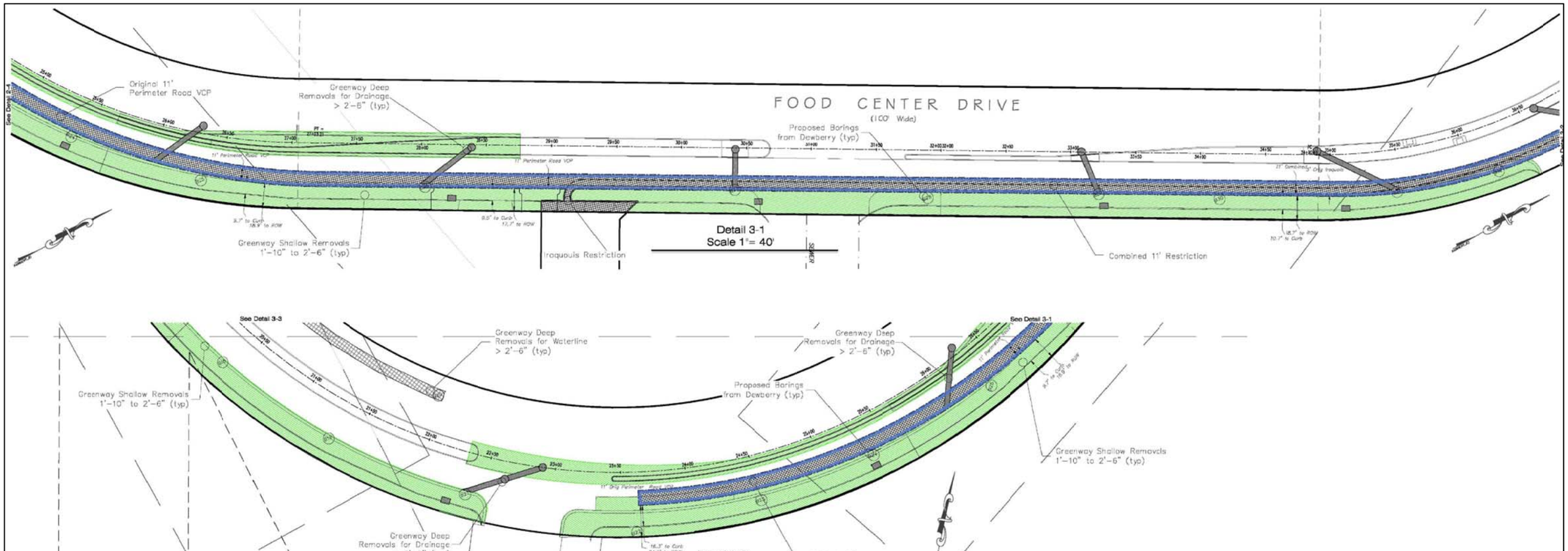
HUNTS POINT, NEW YORK

EXCAVATION AND UTILITY INSTALLATIONS - DETAIL 1

0 40 80
SCALE IN FEET

FILENAME	–
SCALE	1" = 40'

SHEET **6b**



Linetypes

- Right-of-Way
- Combined Restriction
- Orig Iroquois Easement
- Shallow Removal
- Deep Removal
- Combined Restriction
- Perimeter Road VCP
- Proposed Borings from Dewberry

SOURCE: MERCATOR LAND SURVEYING, LLC
FOOD CENTER DRIVE EASEMENT AND VCA SURVEY

(NOT TO SCALE)

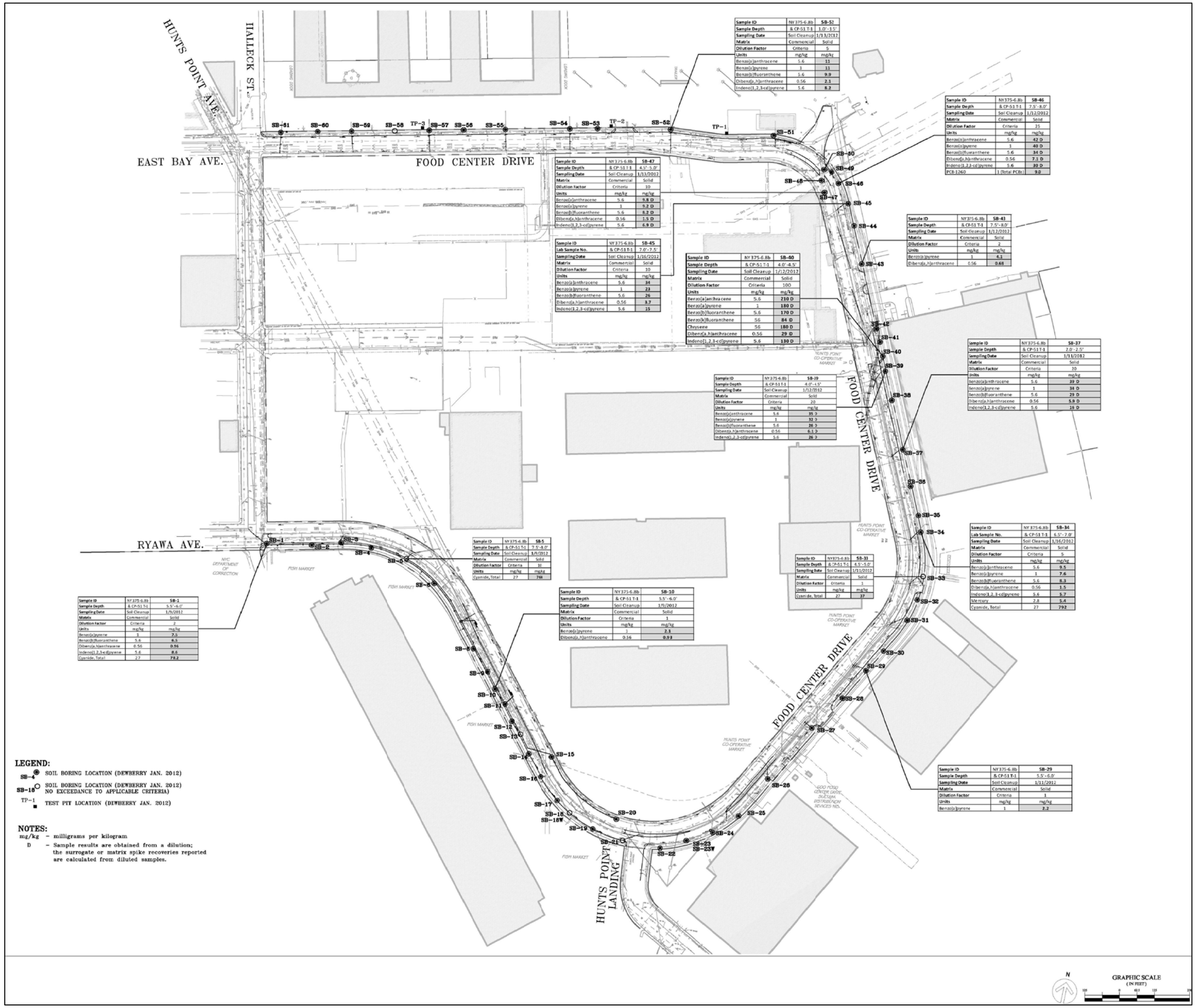
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Excavation and Utility Installations - Detail 2

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE: 3/12/2012

FIGURE: 6c



Sample ID	NY 375-6.8b	SB-52
Sample Depth	& CP-51 T-1	1.0' -1.5'
Sampling Date	Soil Cleanup	1/13/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	5
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	11
Benzo(a)pyrene	1	11
Benzo(b)fluoranthene	5.6	9.9
Dibenz(a,h)anthracene	0.56	2.1
Indeno(1,2,3-cd)pyrene	5.6	8.2

Sample ID	NY375-6.8b	SB-46
Sample Depth	& CP-51 T-1	7.5' -8.0'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	25
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	42 D
Benzo(a)pyrene	1	40 D
Benzo(b)fluoranthere	5.6	34 D
Dibenz(a,h)anthracene	0.56	7.1 D
Indeno(1,2,3-cd)pyrene	5.6	30 D
PCB-1260	1 (Total PCBs)	9.0

Sample ID	NY375-6.8b	SB-47
Sample Depth	& CP-51 T-1	4.5' -5.0'
Sampling Date	Soil Cleanup	1/13/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	9.8 D
Benzo(a)pyrene	1	9.2 D
Benzo(b)fluoranthene	5.6	8.2 D
Dibenz(a,h)anthracene	0.56	1.5 D
Indeno(1,2,3-cd)pyrene	5.6	6.9 D

Sample ID	NY375-6.8b	SB-43
Sample Depth	& CP-51 T-1	7.5' -8.0'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	2
Units	mg/kg	mg/kg
Benzo(a)pyrene	1	4.1
Dibenz(a,h)anthracene	0.56	0.68

Sample ID	NY375-6.8b	SB-45
Lab Sample No.	& CP-51 T-1	7.0' -7.5'
Sampling Date	Soil Cleanup	1/16/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	34
Benzo(a)pyrene	1	23
Benzo(b)fluoranthene	5.6	26
Dibenz(a,h)anthracene	0.56	3.7
Indeno(1,2,3-cd)pyrene	5.6	15

Sample ID	NY 375-6.8b	SB-40
Sample Depth	& CP-51 T-1	4.0' -4.5'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	100
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	210 D
Benzo(a)pyrene	1	180 D
Benzo(b)fluoranthene	5.6	170 D
Benzo(k)fluoranthene	56	84 D
Chrysene	56	180 D
Dibenz(a,h)anthracene	0.56	29 D
Indeno(1,2,3-cd)pyrene	5.6	130 D

Sample ID	NY375-6.8b	SB-37
Sample Depth	& CP-51 T-1	2.0' -2.5'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	20
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	39 D
Benzo(a)pyrene	1	34 D
Benzo(b)fluoranthene	5.6	29 D
Dibenz(a,h)anthracene	0.56	5.9 D
Indeno(1,2,3-cd)pyrene	5.6	16 D

Sample ID	NY 375-6.8b	SB-39
Sample Depth	& CP-51 T-1	4.0' -4.5'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	20
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	35 D
Benzo(a)pyrene	1	32 D
Benzo(b)fluoranthene	5.6	26 D
Dibenz(a,h)anthracene	0.56	6.1 D
Indeno(1,2,3-cd)pyrene	5.6	26 D

Sample ID	NY375-6.8b	SB-5
Sample Depth	& CP-51 T-1	7.5' -8.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Cyanide, Total	27	744

Sample ID	NY375-6.8b	SB-33
Sample Depth	& CP-51 T-1	6.5' -7.0'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Cyanide, Total	27	37

Sample ID	NY375-6.8b	SB-34
Lab Sample No.	& CP-51 T-1	6.5' -7.0'
Sampling Date	Soil Cleanup	1/16/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	5
Units	mg/kg	mg/kg
Benzo(a)anthracene	5.6	9.5
Benzo(a)pyrene	1	7.6
Benzo(b)fluoranthene	5.6	8.3
Dibenz(a,h)anthracene	0.56	1.5
Indeno(1,2,3-cd)pyrene	5.6	5.7
Mercury	2.8	5.4
Cyanide, Total	27	792

Sample ID	NY375-6.8b	SB-10
Sample Depth	& CP-51 T-1	5.5' -6.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Benzo(a)pyrene	1	2.1
Dibenz(a,h)anthracene	0.56	0.93

Sample ID	NY375-6.8b	SB-1
Sample Depth	& CP-51 T-1	5.5' -6.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	2
Units	mg/kg	mg/kg
Benzo(a)pyrene	1	7.5
Benzo(b)fluoranthene	5.6	6.5
Dibenz(a,h)anthracene	0.56	0.96
Indeno(1,2,3-cd)pyrene	5.6	8.6
Cyanide, Total	27	78.2

Sample ID	NY375-6.8b	SB-29
Sample Depth	& CP-51 T-1	5.5' - 6.0'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Benzo(a)pyrene	1	2.2

LEGEND:

- SB-4 — SOIL BORING LOCATION (DEWBERRY JAN. 2012)
- SB-18 — SOIL BORING LOCATION (DEWBERRY JAN. 2012) NO EXCEEDANCE TO APPLICABLE CRITERIA)
- TP-1 — TEST PIT LOCATION (DEWBERRY JAN. 2012)

NOTES:

mg/kg – milligrams per kilogram

D – Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

N

GRAPHIC SCALE (IN FEET)

SOURCE: DEWBERRY-GOODKIND, INC.
SOIL AND GROUNDWATER INVESTIGATION RESULTS REPORT
SOIL BORING LOCATION PLAN / ANALYTICAL EXCEEDANCES

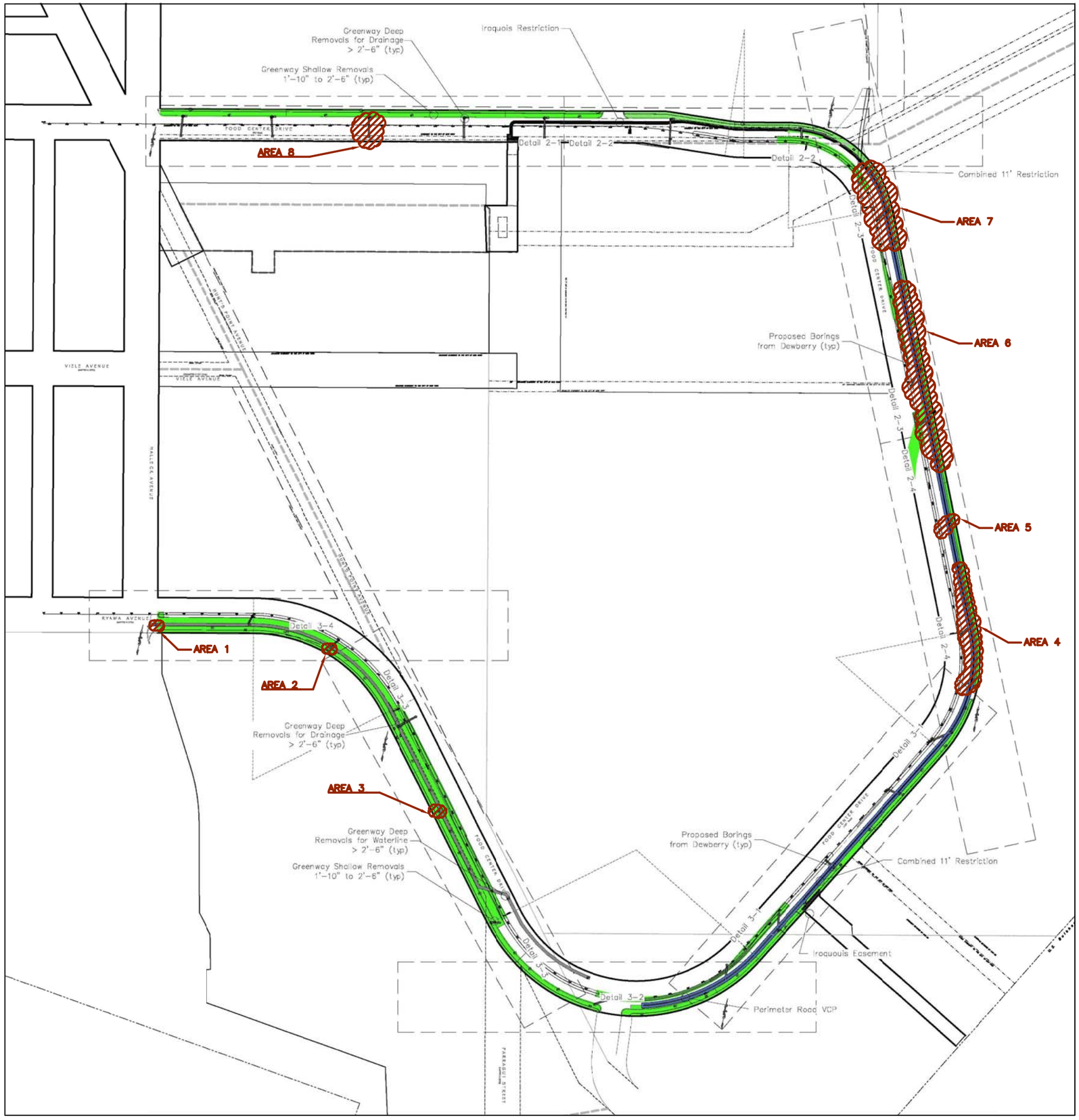
HDR

Boring Locations and Analytical Exceedances

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE: 3/12/2012

VOLUME: 7



Linetypes

- Right-of-Way
- Combined Restriction
- Orig Iroquois Easement
- Shallow Removal
- Deep Removal
- Combined Restriction
- Perimeter Road VCP
- (B16) Proposed Borings from Dewberry

SOURCE: MERCATOR LAND SURVEYING, LLC
FOOD CENTER DRIVE EASEMENT AND VCA SURVEY

(NOT TO SCALE)

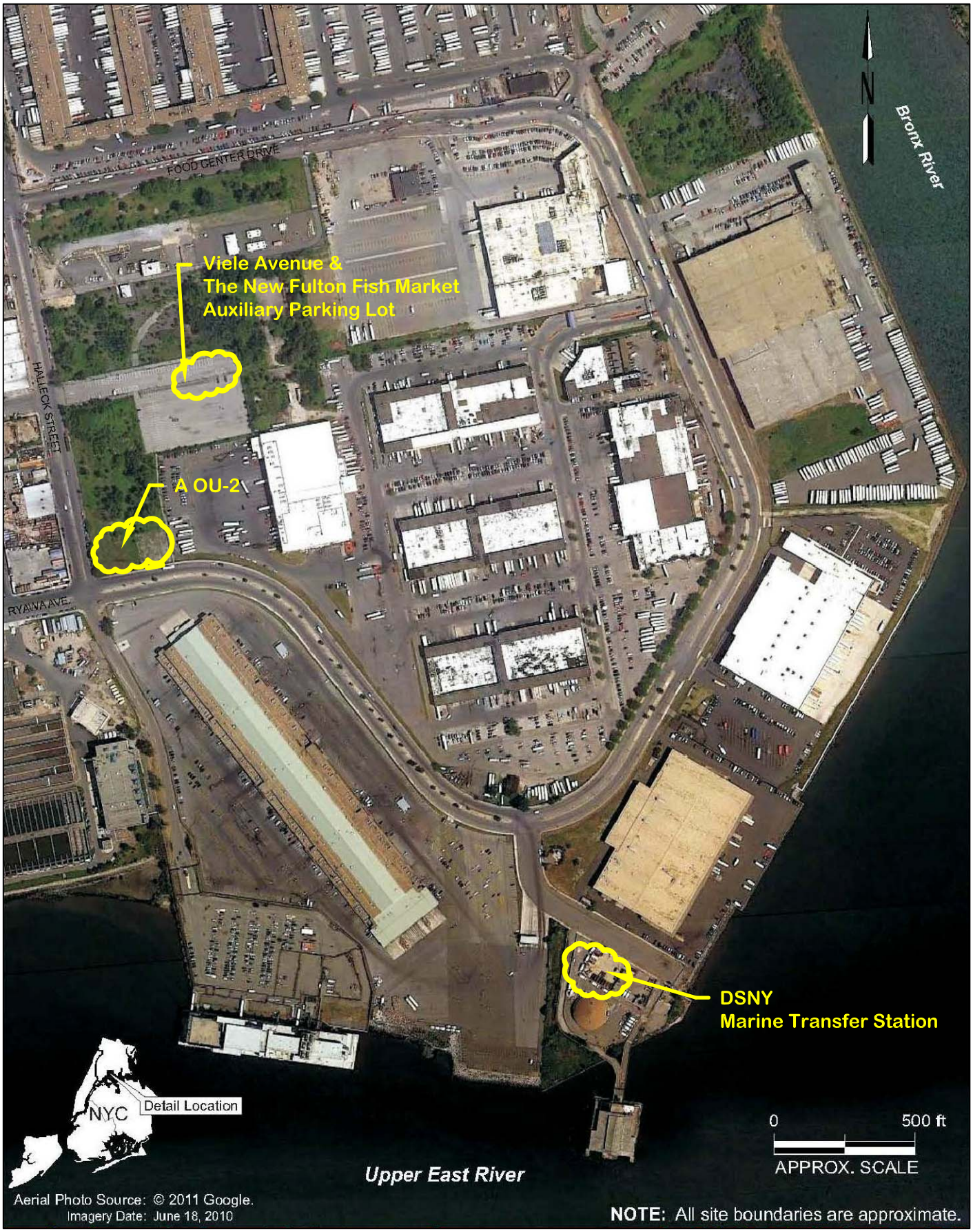
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Potential Areas of MGP Impacts

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE: 3/12/2012

FIGURE: 8



HDR

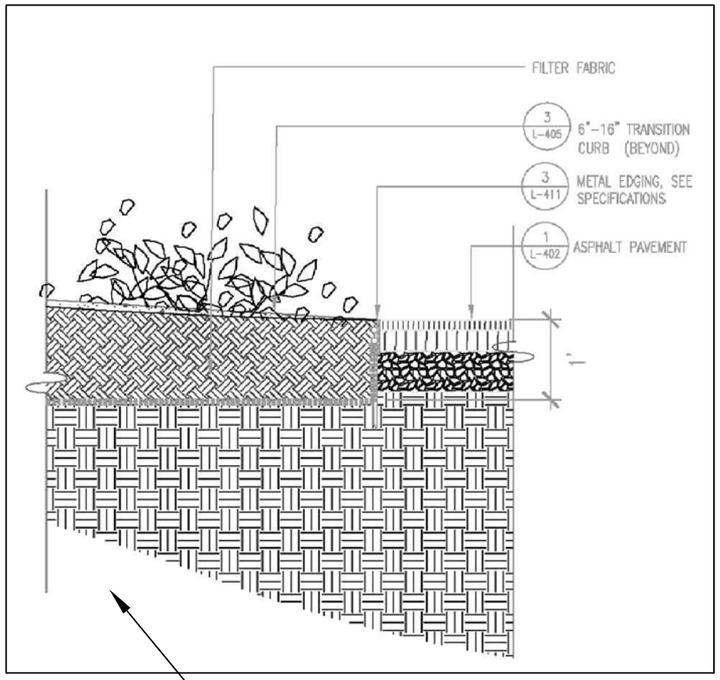
Henningson, Durham & Richardson
Architecture and Engineering, P.C.
In association with HDR Engineering, Inc.

Potential Stockpile Locations

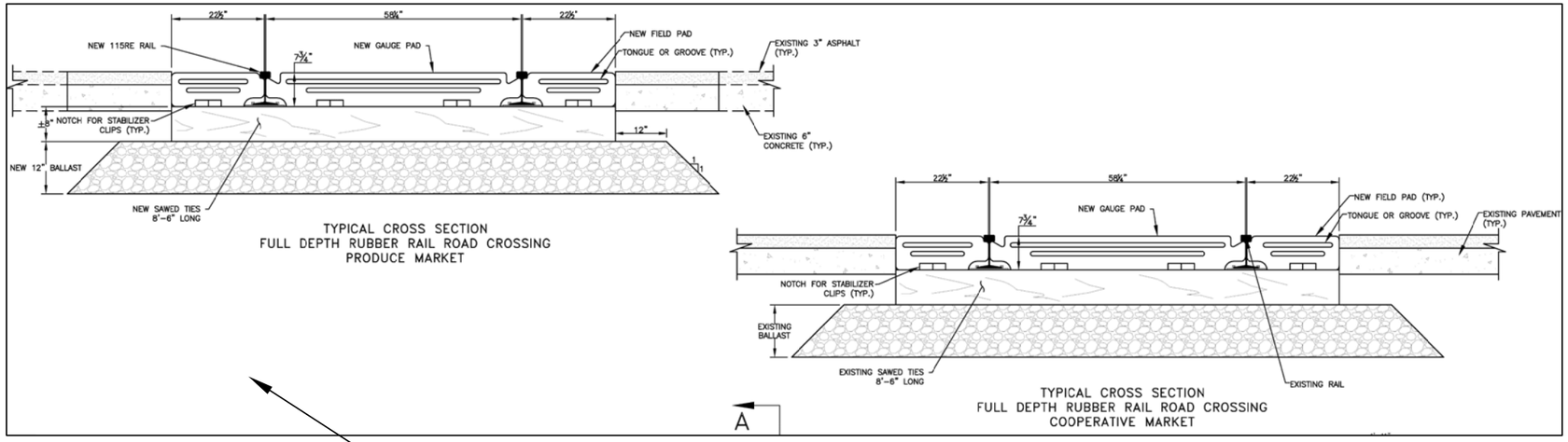
Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE
3/12/2012

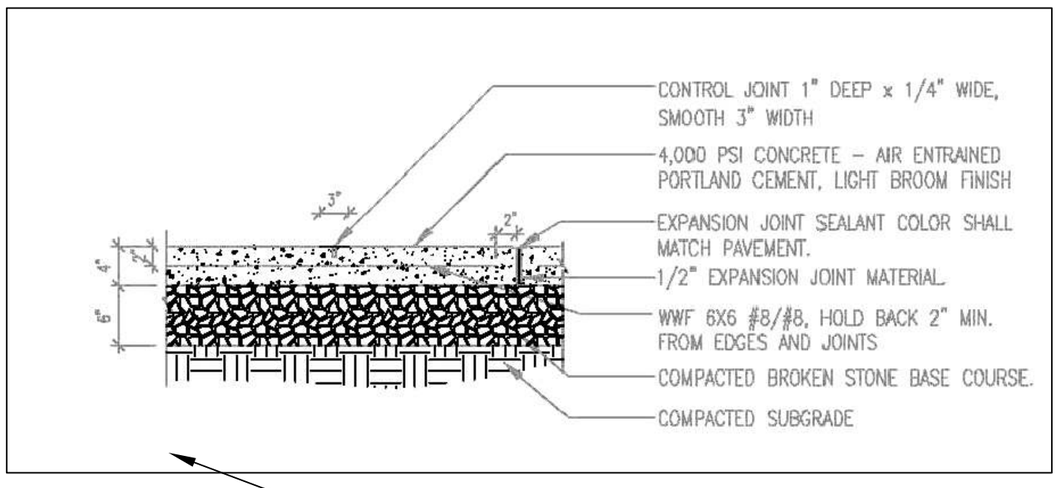
FIGURE
9



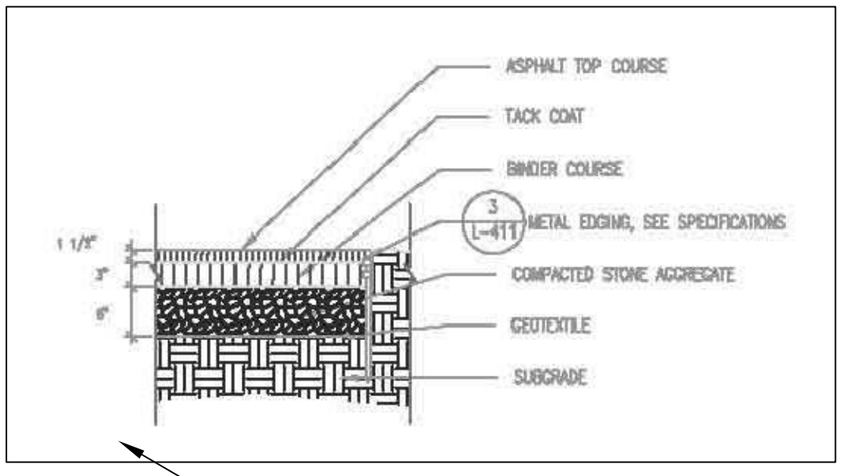
GREENWAY PLANTINGS



RAIL ROAD CROSSINGS



CONCRETE PAVEMENT



GREENWAY PAVEMENT

SOURCE: MATHEWS NIELSON LANDSCAPE ARCHITECTS,

(NOT TO SCALE)

HDR

Henningson, Durham & Richardson Architecture and Engineering, P.C.
In association with HDR Engineering, Inc.

Cover System Cross Sections

Construction Work Plan for the Food Center Drive Greenway
Hunts Point, New York

DATE 3/12/2012

FIGURE 10

ATTACHMENTS

Attachment A

Hunts Point Food Distribution Center Redevelopment Plan

Site Management Plan for Iroquois Gas Pipeline / Perimeter Site, Bronx, New York

- Final -

Prepared for:



New York City
Economic Development
Corporation

110 William Street, New York, New York 10038

Prepared by:

HDR | LMS

One Blue Hill Plaza- 12th Floor, Pearl River New York 10965

December 2006

SITE MANAGEMENT PLAN

Final Iroquois Gas Pipeline/Perimeter Site (December 2006)

1.0 Overview and Objectives

The Iroquois Gas Pipeline/Perimeter Site is a right of way approximately 20 feet from eastern most curb of the roadway running northward up Food Center Drive (FCD), approximately 3,800 feet, to a point on East Bay Avenue where it makes a 90 degree turn south across East Bay Avenue into a parcel immediately adjacent to the Hunts Point Voluntary Cleanup Site known as Operable Unit 2 of Parcel E (Site E OU-2). The property currently owned by City of New York is being utilized as the main thorough fare around the Hunts Point Cooperative Market Area. The location and alignment of the site is shown on Figures 1 and 2.The site has been characterized during several previous investigations. The user of this Site Management Plan (SMP) should refer to the Interim Remedial Engineering Report for the Perimeter Site Bronx, NY (January 2005).

The objective of this SMP is to set guidelines for the management of soil/fill material during any activities which would breach the surficial cap (engineering control or cover system) at the Site. This SMP addresses environmental concerns related to soil management and has been reviewed and approved by the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH).

2.0 Nature and Extent of Contamination

Based on data obtained from previous investigations and remediation conducted at the site, an Interim Remedial Engineering Report, dated January 2005 was developed by Henningson, Durham and Richardson Architecture & Engineering LLC | Lawler Matusky and Skelly Engineers, LLP (HDR|LMS). Three types of material of potential concern were observed during the excavation activities. The following categories were assigned to the material based on visual observation and are as follows: Coal Tar; Purifier Waste, and; a mixture of both Coal Tar and Purifier Waste.

Coal tar is a product of the destructive distillation of bituminous coal. It is a dark reddish brown to black, oily, viscous liquid that does not readily mix with water. It has a very strong odor, which many people find similar to mothballs or driveway sealant. Coal tars, derived from both coal carbonization and carbureted water gas processes, are complex mixtures of organic chemicals. The following two major classes of chemical compounds found in coal tar are:

- Volatile organic compounds (VOCs) characterized by benzene, toluene, ethylbenzene and xylene, which are identified by their initials as the BTEX compounds, and
- Semi-volatile organic compounds (SVOCs) known as polycyclic aromatic hydrocarbons or PAHs.

Purifier Waste is typically found as a mixture of wood chips with a very strong, unpleasant burnt odor. Once exposed at the ground surface, the waste will often develop an iridescent blue color known as "prussian blue". It contains significant quantities of chemically complexed Cyanide compounds. In addition to containing complexed Cyanide, water which comes into contact with purifier waste is often acidic. If the acidic water discharges to a stream or other surface water body, it may cause harm to fish and wildlife.

There are three major means by which a toxic substance can come into contact with or enter the body. These are called routes of exposure and are as follows:

1. Inhalation (breathing) of gases, vapors, dusts or mists is a common route of exposure. Chemicals can enter and irritate the nose, air passages and lungs. They can become deposited in the airways or can be absorbed through the lungs into the bloodstream. The blood can then carry these substances to the rest of the body.

2. Direct contact (touching) with the skin or eyes is also a route of exposure. Some substances are absorbed through the skin and enter the bloodstream. Broken, cut or cracked skin will allow substances to enter the body more easily.

3. Ingestion (swallowing) of food, drink, or other substances is the third route of exposure. Chemicals that get in or on food, cigarettes, utensils or hands can be swallowed. Substances can be absorbed into the blood and then transported to the rest of the body.

The constituents of potential concern (COPCs) for soil consist primarily of VOCs (BTEX compounds), SVOCs (PAHs), Metals, and complexed Cyanide compounds.

Results of ground water sampling indicate that constituents in the soil/fill material have impacted ground water quality above applicable NYSDEC Technical Operational Guidance Series 1.1.1 (TOGS 1.1.1) standards for ground water, requiring treatment prior to use.

3.0 Contemplated Use

The principal use of the Site prior to any investigation and remediation was as a paved multi-lane roadway servicing the Hunts Point peninsula. The construction and remediation also included the installation of an underground high pressure gas pipeline along the route described below. Any work performed in or near this area should not be performed without properly identifying all underground utilities.

As part of the redevelopment project, the Site has been and continues to be identified for restricted industrial use as a major roadway within the Hunts Point Cooperative Market Area. There is a median to the west with a significant number of underground utilities. A number of commercial enterprises and municipally operated facilities are located in the area including; the Hunts Point Produce Market, Fulton Fish Market, Hunts Point Meat Market, and NYCDEP Sewage Treatment Plant. The roadway itself is approximately 6 lanes wide (including a central median) with the Site portion being the outer 2 lanes from a point approximately six hundred feet north of Farragut Avenue to a point approximately 200 feet beyond the entrance of the Atlantic & Pacific Tea Co. At this point, the site crosses the roadway to the south where it enters a gated roadway east of the Consolidated Edison compressor station.

4.0 Purpose and Description of Surface Cover System

The purpose of the surface cover system is to eliminate the potential for human contact with fill material, eliminate the potential for contaminated runoff from the property, and prevent infiltration of surface water through the fill and replacement of the roadway surface. The cover system consists of an asphalt layer over the traffic portion of the route with a minimum of 6 inches of asphalt and sub base material, concrete sidewalks where the pipeline crossed these areas, and in one location a railroad track.

The cover also consists of approximately 2 feet of fill material followed by concrete slabs to protect

the underground gas line that was placed below it. The remainder of the excavation below the slabs was backfilled around the gas pipeline with "flowable" fill (wet concrete).

5.0 Management of Soils/Fill and Long-Term Maintenance of Cover System

The purpose of this section is to provide environmental guidelines for the management of subsurface soils/fill and the long-term maintenance/replacement of the cover system during and after any future intrusive work which breaches the cover system.

The SMP includes, but is not limited to, the following conditions:

- Any breach of the cover system, including for the purposes of construction or utility work, requires that upon completion of the effort, the cover be replaced as it was originally installed. Backfill material used must be from an acceptable source, free of potential industrial sources of chemical or petroleum contamination (refer to Sections 5.1 through 5.3 for additional excavation/backfill-specific requirements). The repaired area must be covered with a similar layering of material comparable to that which was removed, and the repairs carried out in accordance with applicable City specifications for the surface removed.
- During construction activities, control of surface erosion and run-off of the entire area must be maintained at all times.
- Site soil/fill that is excavated and is intended to be removed from the property must be managed, stockpiled, characterized, and properly disposed of in accordance with NYSDEC regulations.
- Prior to any construction activities, workers are to be notified of the site conditions with clear instructions regarding how the work is to proceed. Invasive work performed at the property will be performed in accordance with all applicable local, state, and federal regulations to protect worker health and safety. A general Health & Safety Plan (HASP) to be reviewed by any contractor involved in subsurface work and used by that contractor as a base for preparing an individual HASP has been prepared and is attached with this SMP. The contractor will have in their possession a HASP that has been reviewed by workers involved in intrusive work where the site cover materials will be disturbed.
- The Owner (City of New York) shall annually, or such time as NYSDEC may allow, complete and submit to the NYSDEC Certification Report beginning in the year 2007. The Certification Report shall contain a statement certifying that the institutional controls put in place, pursuant to the, Voluntary Cleanup Agreement Index No. D2-0023-00-04 (VCA) and the Declaration of Covenants and Restrictions imposed upon the fee title to the site and recorded in the Office of the New York City Register, as specified in the VCA, are still in place, have not been altered and are still effective. Additionally, the Certification Report shall specify that the remedy and protective cover have been maintained, and that the conditions at the site are fully protective of public health and the environment.

If the cover system has been breached during the period covered by that Certification Report, the owner of the property shall include the following in that certification report:

a certification that all work was performed in conformance with this SMP.

In addition, a deed restriction will be implemented in accordance with the requirements of the New York State Voluntary Cleanup Program (VCP) limiting the future use of the property identified in the metes and bounds description in the NYSDEC Voluntary Cleanup Agreement (VCA) for this Site (excluding the area used as staging for the Iroquois project which is now Operable Unit 3 of Parcel E, or Site E OU-3) to use as a roadway. The property that is subject to this deed restriction is

shown on Figure 1. The deed restriction will be identified by adjacent parcel lot and block numbers due to the current site not being identified as a specific lot and block number. In the event that in the future the City of New York identifies this Site as a specific tax lot and block number, that designation will be made. However, at this time, it is intended by the City of New York to place a deed restriction on the properties located within the Hunts Point Food Distribution Center Meat Market and the Iroquois Pipeline / Perimeter Site.

5.1 Excavated and Stockpiled Soil/Fill Disposal

Soil/fill that is excavated as part of development that includes waste material as described in Section 2.0 of this document that cannot be used as fill below the cover system will be further characterized prior to transportation off-site for disposal at a properly permitted facility. All fill will be segregated according to the contractor's chosen disposal facility requirements. Prior to any fill material being removed from the Site, each disposal facility will provide to the contractor the maximum concentrations allowed for compounds and analytes listed in Table 2 as well as the minimum sampling frequency and analytical requirements. The analytical requirements and limits will be in accordance with the facilities most current operating permit for its destination State. The Contractor will review all analytical results in comparison to the allowable facility concentrations and will determine if the material is permissible at the subject facility. No material will be removed to a NYSDEC-registered recycling facility with the exception of road base material (asphalt) or existing above grade structures (concrete). Following disposal of material, the records associated with the disposal will be made available for review should they be requested.

5.2 Sub-grade Material for Reuse

On-Site excavated sub-grade material used to backfill excavations or placed to increase grades or elevation shall meet the following criteria:

1. Excavated on-Site soil/fill which appears to be visually impacted with either coal tar or purifier waste materials as described in Section 2.0 of this SMP shall be segregated from material proposed to be used as backfill, sampled, and analyzed for proper off-Site disposal (as described in Section 5.1 of this SMP).

2. The remaining material can be used as backfill in accordance with NYCRR Solid Waste Management Facilities Part 360 1-15(b)(8), which allows for the re-use of non-hazardous, contaminated soil which has been excavated as part of a construction project, other than a department-approved or undertaken inactive hazardous waste disposal site remediation program, and which is used as backfill for the same excavation or excavations containing similar contaminants at the same site.

5.3 Imported Material for Use as Backfill

Imported material for use of backfill on the Site must adhere to the following conditions. Off-Site soils intended for use as site backfill cannot otherwise be defined as solid waste in accordance with 6 NYCRR Part 360-1.2(a).

1. Registered Facility Source:

   Any off-Site material brought to the site for filling and grading purposes shall be from an acceptable borrow source free of industrial and/or other potential sources of chemical or petroleum contamination. For example, uncontaminated C&D as defined in 6 NYCRR Part 360-16.2 (c) that has been processed by a NYSDEC-registered C&D recycling



HDR | LMS Henningson, Durham & Richardson Architecture and Engineering, P.C. in association with HDR Engineering, Inc. One Blue Hill Plaza Pearl River, NY 10965	**Iroquois Permanent Easement** **HUNTS POINT**	**Figure 1**



HDR | LMS Henningson, Durham & Richardson Architecture and Engineering, P.C. in association with HDR Engineering, Inc. One Blue Hill Plaza Pearl River, NY 10965	**Site Layout** **HUNTS POINT • MEAT MARKET**	**Figure 2**

facility may be used provided it meets the existing New York State Department of Transportation (NYSDOT) Standard Specification as described below in Section 5.3.2.

This material is not acceptable to be used in the upper (top) foot of fill and must be placed beneath the approved engineered surface cover, unless it is sampled as described in 3a and meets the criteria in 3c or 3d.

2. Recycled Portland Cement Concrete Aggregate (RCA):

   If Recycled Portland Cement Concrete Aggregate (RCA) is used beneath the top foot or approved engineering surface and it comes from other than a New York State Department of Transportation project, documentation showing that the material comes from a NYSDEC permitted or registered facility is required. Off-site material imported for filling and grading purposes shall conform to Section 304 of New York State Department of Transportation Standard Specifications Construction and Materials Volume 1 (2002). Section 304 option B, "single layer of Type I Sub-base Course" provides 3 alternate types of material suitable for backfill material. Material originating as RCA from a registered facility with less than 10% fine-grained sediments by weight passing through a 200 sieve does not require analytical testing.

   a. Alternate A: at least 95% by weight, of (RCA) and free from organic and other deleterious material. This material may contain up to 5% by weight asphalt and/or brick;

   b. Alternate B: a mixture of RCA conforming to Alternate A above mixed with stone, sand, gravel, or blast furnace slag. This material may contain up to 5% by weight asphalt and/or brick; and/or

   c. Alternate C: bituminous material that is reclaimed from bituminous pavement and/or shoulders (Reclaimed Asphalt Pavement, or RAP) on a project constructed by the Department of Transportation and is well-graded from coarse to fine and free from organic or other deleterious material, including tar. This material is at least 95%, by weight, reclaimed bituminous material and has a maximum top size, at time of placement, of 50mm." If Alternate C is used, documentation of its being from a Department of Transportation source must be provided (This is similar to the reference for RCA).

Table 1: NYSDOT Gradation Table 304-1

Sieve Size No.	Sieve Size Designation	Percent Passing by Weight (%)
N/A	100 mm	-
N/A	75 mm	100
N/A	50 mm	90 - 100
N/A	6.3 mm	30 - 65
40	425 µm	5 - 40
200	75 µm	0 - 10

3. Non-Regulated Soil and Sand:

   If the contractor designates a source of soil to be used as fill, it shall be further documented in writing to only contain soil and no man-made materials (such as construction and demolition (C&D) debris). Sand from an operating gravel pit or similar facility operating under a mining permit must contain less than 7% fine-grained sediments by weight passing through a 200 sieve. Also covered under this section is material from non-commercial locations where there is no information available. These materials as described in this section (Section 5.3.3), shall be subject to the following acceptance criteria:

   a. Soils will be subject to the collection of one (1) representative composite sample per source per 1000 cubic yards. The sample(s) should be analyzed for TCL VOCs, SVOCs, pesticides, PCBs, arsenic, barium, beryllium, cadmium, chromium (Hexavalent and trivalent), copper, lead, manganese, total mercury, nickel, selenium, silver, zinc, and total cyanide in accordance with the quality assurance standards set forth in 40 CFR Part 136 and the most current NYSDEC Analytical Services Protocol (ASP). Soil analyses shall be reported as Category A deliverables specified in the most current NYSDEC ASP. The soil will be acceptable for use as backfill for depths below the one foot surface cover if analytical results indicate that the contaminants, if any, are present at concentrations below those described in Table 2: Backfill Analytical Parameters. Table 2 was created through collaboration between the NYSDEC, NYSDOH, NYCEDC and HDR|LMS.

   b. If any of the parameters exceed the thresholds set in Table 2, and there is still a desire to use the soil below the top foot, a written request will be made to the NYSDEC which will include a full description of the soil, its source, volume and analytical data. The NYSDEC will review the data and provide a written response within a reasonable time of the request.

   c. If the results of the analyses indicate the soil meets or is below the concentrations listed in Table 2, then it will be acceptable for use within the upper foot if open soil is desired. A Geotextile fabric of permeable membrane shall be placed on the surface of the material below the top foot to prevent mixing from frost heave or other settling related actions.

   d. If any of the parameters exceed Table 2, and there is still a desire to use the soil in the upper foot, a written request will be made to the NYSDEC which will include a full description of the material, its source, volume and analytical data. The NYSDEC will review the data and provide a written response within a reasonable time of the request.

4. Non-Regulated Gravel and Rock:

   If the contractor designates a source of soil to be used as fill, it shall be further documented in writing to only contain soil and no man made materials (such as construction and demolition (C&D) debris). Crushed gravel or rock from an operating gravel pit or similar facility operating under a mining permit does not require analytical testing. Sand from an operating gravel pit or similar facility operating under a mining permit is not included in this section (refer to Section 5.3.3).

Table 2: Backfill Analytical Parameters

Contaminant	CAS Number	Backfill Limit
Metals		
Arsenic	7440-38-2	16
Barium	7440-39-3	400
Beryllium	7440-41-7	47
Cadmium	7440-43-9	7.5
Chromium, hexavalent [1]	18540-29-9	19
Chromium, trivalent [1]	16065-83-1	1500
Copper	7440-50-8	270
Total Cyanide	57-12-5	27
Lead	7439-92-1	450
Manganese	7439-96-5	2000
Total Mercury		0.73
Nickel	7440-02-0	130
Selenium	7782-49-2	4
Silver	7440-22-4	8.3
Zinc	7440-66-6	2480
PCBs / Pesticides		
2,4,5-TP Acid (Silvex)	93-72-1	3.8
4,4'-DDE	72-55-9	17
4,4'-DDT	50-29-3	47
4,4'-DDD	72-54-8	14
Aldrin	309-00-2	0.19
Alpha-BHC	319-84-6	0.02
Beta-BHC	319-85-7	0.09
Chlordane (alpha)	5103-71-9	2.9
Delta-BHC	319-86-8	0.25
Dibenzofuran	132-64-9	210
Dieldrin	60-57-1	0.1
Endosulfan I	959-98-8	102
Endosulfan II	33213-65-9	102
Endosulfan sulfate	1031-07-8	200
Endrin	72-20-8	0.06
Heptachlor	76-44-8	0.38
Lindane	58-89-9	0.1
Polychlorinated biphenyls	1336-36-3	1

Table 2: Backfill Analytical Parameters (continued)

Contaminant	CAS Number	Backfill Limit
Volatile organic compounds [2]		
1,1,1-Trichloroethane	71-55-6	0.68
1,1-Dichloroethane	75-34-3	0.27
1,1-Dichloroethene	75-35-4	0.33
1,2-Dichlorobenzene	95-50-1	1.1
1,2-Dichloroethane	107-06-2	0.02
cis-1,2-Dichloroethene	156-59-2	0.25
trans-1,2-Dichloroethene	156-60-5	0.19
1,3-Dichlorobenzene	541-73-1	2.4
1,4-Dichlorobenzene	106-46-7	1.8
1,4-Dioxane	123-91-1	0.1
Acetone	67-64-1	0.05
Benzene	71-43-2	0.06
n-Butylbenzene	104-51-8	12
Carbon tetrachloride	56-23-5	0.76
Chlorobenzene	108-90-7	1.1
Chloroform	67-66-3	0.37
Ethylbenzene	100-41-4	1
Hexachlorobenzene	118-74-1	3.2
Methyl ethyl ketone	78-93-3	0.12
Methyl tert-butyl ether	1634-04-4	0.93
Methylene chloride [3]	75-09-2	0.05 [3]
n-Propylbenzene	103-65-1	3.9
sec-Butylbenzene	135-98-8	11
tert-Butylbenzene	98-06-6	5.9
Tetrachloroethene [3]	127-18-4	1.3 [3]
Toluene	108-88-3	0.7
Trichloroethene [3]	79-01-6	0.47 [3]
1,2,4-Trimethylbenzene	95-63-6	3.6
1,3,5-Trimethylbenzene	108-67-8	8.4
Vinyl chloride	75-01-4	0.02
Xylene (mixed)	1330-20-7	1.6

Table 2: Backfill Analytical Parameters (continued)

Contaminant	CAS Number	Backfill Limit
Semi-Volatile Organic Compounds		
Acenaphthene	83-32-9	98
Acenapthylene	208-96-8	107
Anthracene	120-12-7	500
Benz(a)anthracene	56-55-3	1
Benzo(a)pyrene	50-32-8	1
Benzo(b)fluoranthene	205-99-2	1.7
Benzo(g,h,i)perylene	191-24-2	500
Benzo(k)fluoranthene	207-08-9	1.7
Chrysene	218-01-9	1
Dibenz(a,h)anthracene	53-70-3	0.56
Fluoranthene	206-44-0	500
Fluorene	86-73-7	386
Indeno(1,2,3-cd)pyrene	193-39-5	5.6
m-Cresol	108-39-4	0.33
Naphthalene	91-20-3	12
o-Cresol	95-48-7	0.33
p-Cresol	106-44-5	0.33
Pentachlorophenol	87-86-5	0.8
Phenanthrene	85-01-8	500
Phenol	108-95-2	0.33
Pyrene	129-00-0	500

Footnotes:
All backfill limits are in parts per million (ppm)
ND = Non-Detect
[1] = The backfill limit for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific backfill limit for hexavalent chromium.
[2] = Any VOCs present that require a dilution to be performed for the analysis will cause the material to be considered not acceptable for use as fill beneath or within a 10-foot radius of a building, foundation or structure that is not open to the air for free ventilation on the Site.
[3] = Any material to be considered for use as fill beneath or within a 10-foot radius of a building, foundation or structure that is not open to the air for free ventilation on the Site, with specific VOC air guideline values prescribed by the most current NYSDEC/NYSDOH soil vapor intrusion guidance, may not have concentrations exceeding the method detection limit (MDL) (i.e. being detectable) as defined by the most current NYSDEC Analytical Services Protocol (ASP).

Notes:
- Allowable values for imported soils are determined by comparing either the Track 1 or the Track 2 use-based Protection of Public Health value (based on the site's achieved cleanup track) with the Protection of Groundwater value and selecting the lower of the two (for sites with no ecological resources). If the site was cleaned up to protect ecological resources, then the ecological resource value would be used, where it is lower than both the groundwater protection and public health protection values.
- The following material may be imported, without chemical testing, to be used as backfill beneath pavement or the final soil cover (i.e. the uppermost 1 or 2 feet, depending on the site's use restriction):
  a. Rock or stone, consisting of virgin material from a permitted mine or quarry;
  b. Recycled concrete, brick or asphalt from a NYSDEC-registered C&D processing facility which conforms to Section 304 of the New York State Department of Transportation Standard Specifications Construction and Materials Volume 1 (2002). This material must contain less than 10% (by weight) material which would pass through a size 200 sieve.

When any soil or material from an off-site source is proposed to be used for backfilling an excavation, the following procedure will be instituted for approval of the material:

The designated NYC representative will be contacted when the source has been chosen and before any material is imported. As long as the property remains under NYC ownership, the City will be responsible for then having a qualified Environmental Professional (EP) review the backfill information and present at the site to document the process for the annual certification. The EP will have the following qualifications;

- He/she will have a working familiarity of the site conditions, remedy, and conditions of the approved Engineering Report, Site Management Plan or final Report that outlines the redevelopment conditions and the recertification requirements that must be met.
- Be familiar with NYSDEC Part 360 and the definitions of C&D, recycling facility operating criteria, and the types and analytical criteria for acceptable backfill material and for a facility accepting excess material.
- Have the experience on previous projects to understand and be able to visually identify material that would not be acceptable immediately upon inspection. Such material includes; petroleum impacted material, material mixed with industrial waste, and material that does not qualify as uncontaminated C&D even after processing.
- Be able to review documents from the source facility/location to determine the applicability of the material proposed for backfill and in comparison to the registration, in addition to the validity of the facility documents as they are presented.
- The EP will have the ability to request any additional applicable information to assist in making the determination for the acceptance of the fill material.

Following approval of backfill material, the EP will document the specific information that is relevant to the Periodic Recertification including:

1. Facility providing material
2. Copy of facility Registration (current if applicable)
3. Volume of material imported for fill.
4. Pertinent sampling data that applies to the acceptance of the material (Table 2).
5. Volume of material that was disposed of off site and all pertinent sampling data.
6. Disposal Facility accepting excess material.
7. Map of the site showing dimensions and locations of where work was performed.
8. A statement relating to the recapping of those areas where work has taken place that they maintain the approved conditions.
9. The imported fill material was physically inspected and physically meets all of the criteria for unregulated material such as: no odors of petroleum or other chemicals, staining or discoloration.

The Periodic Certification will also include the signature and stamp of a New York State P.E. that states the original conditions of the approved closure are being maintained and that any areas that have been opened have been backfilled with proper material and properly recapped.

Attachment B

Interim Remedial Engineering Report for the Perimeter Site Bronx, NY

Prepared by: Lawler, Matusky & Skelly Engineers LLP January 2005

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EXECUTIVE SUMMARY

Lawler, Matusky & Skelly Engineers LLP (LMS), under subcontract to New York City Economic Development Corporation (NYCEDC), performed a subsurface investigation along the northbound (east) lanes of Food Center Drive (FCD) starting within Site C to Site E OU2 just outside of the gas transmission system of Consolidated Edison (Con Ed), located in Hunts Point. The subsurface investigation was completed under a Voluntary Cleanup Agreement (VCA) with New York State Department of Environmental Conservation (NYSDEC) prior to the completion of the final design and routing of the Iroquois Gas Transmission System (IGTS) pipeline. Once the design and routing of the pipeline was finalized, the actual construction of the pipeline was incorporated as part of this project. The construction of the IGTS pipeline would result in a 24-inch diameter, natural gas pipeline extension from Northport, Long Island to Hunts Point, Bronx County, New York. The project was named by IGTS as the Eastchester Extension Project (EEP) (Figure 1).

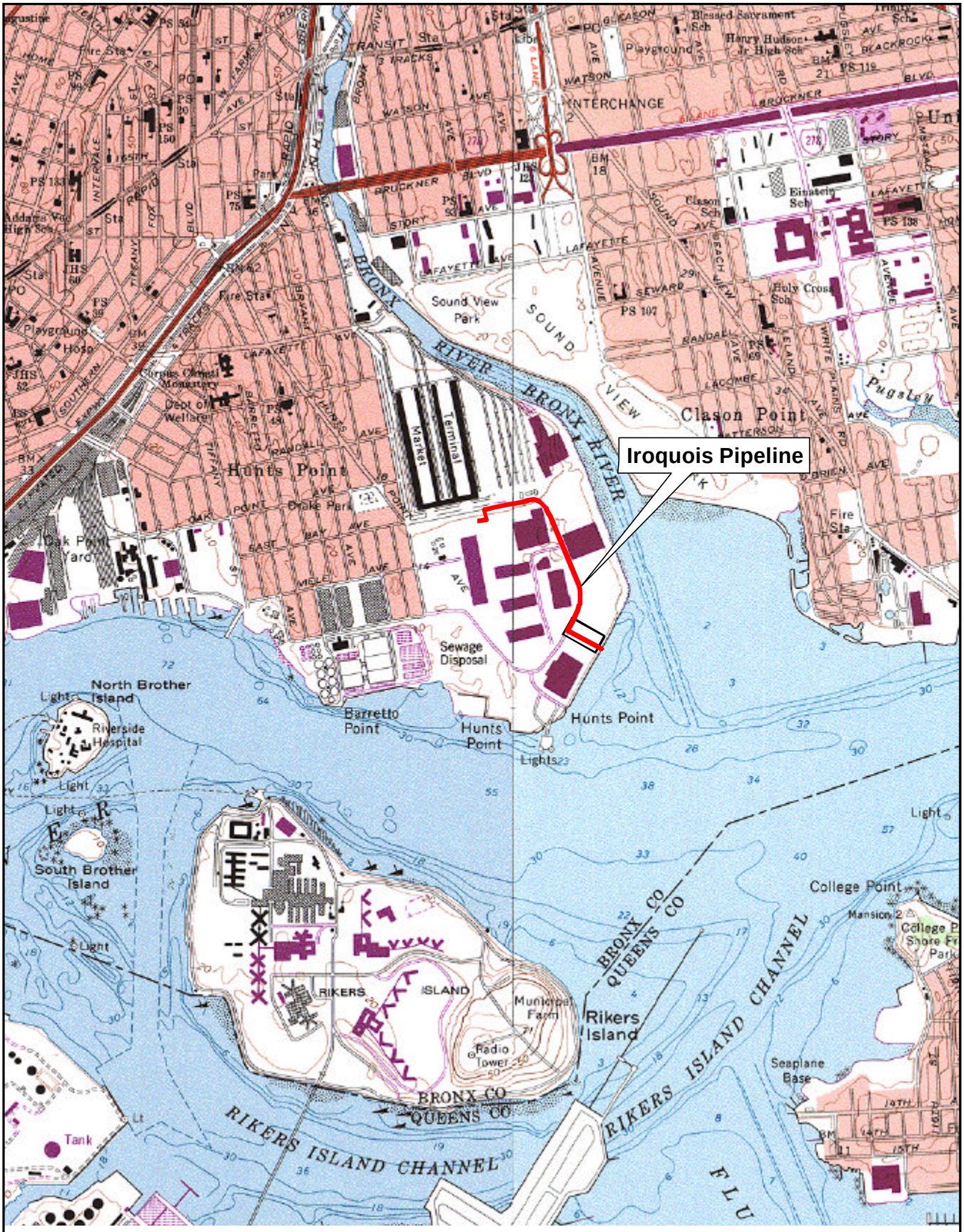
Historically, the Hunts Point Peninsula, including the strip of land for the pipeline path was part of a Con Ed coal gasification plant that was constructed between 1924 and 1932 and operated until the early 1960s. The plant was constructed to manufacture both oven gas and carbureted water gas as major products and coke, ammonium sulphate, coal tar, water gas tar, and light oil as by products. A total of approximately 46 buildings or structures, which existed on the former facility site, were actively involved in gas production. Figure 2 details the historic aerial view of the pipeline route during the operation of the former Con Ed facility with respect to the current location of FCD.

A review of Site conditions and history of the area were performed by IGTS and ENSR International using the following documents:

1. *Investigative Report for the Food Center Drive Perimeter, Bronx, NY* (LMS, April 2001;

2. *Hunts Point Food Distribution Center Development Plan Investigative Report for the Operating Unit Portion of Parcel A Bronx, NY*, (LMS, July 1999 (also revised in July 1999));

3. *Hunts Point Food Distribution Center Redevelopment Plan, Draft Investigative Report for the Operating Unit Portion of Parcel C, Bronx, NY* (LMS, November 1999); and



Map source: USGS 7.5 minute quadrangle series, Central Park, NY-NJ, 1966, photorevised 1988.

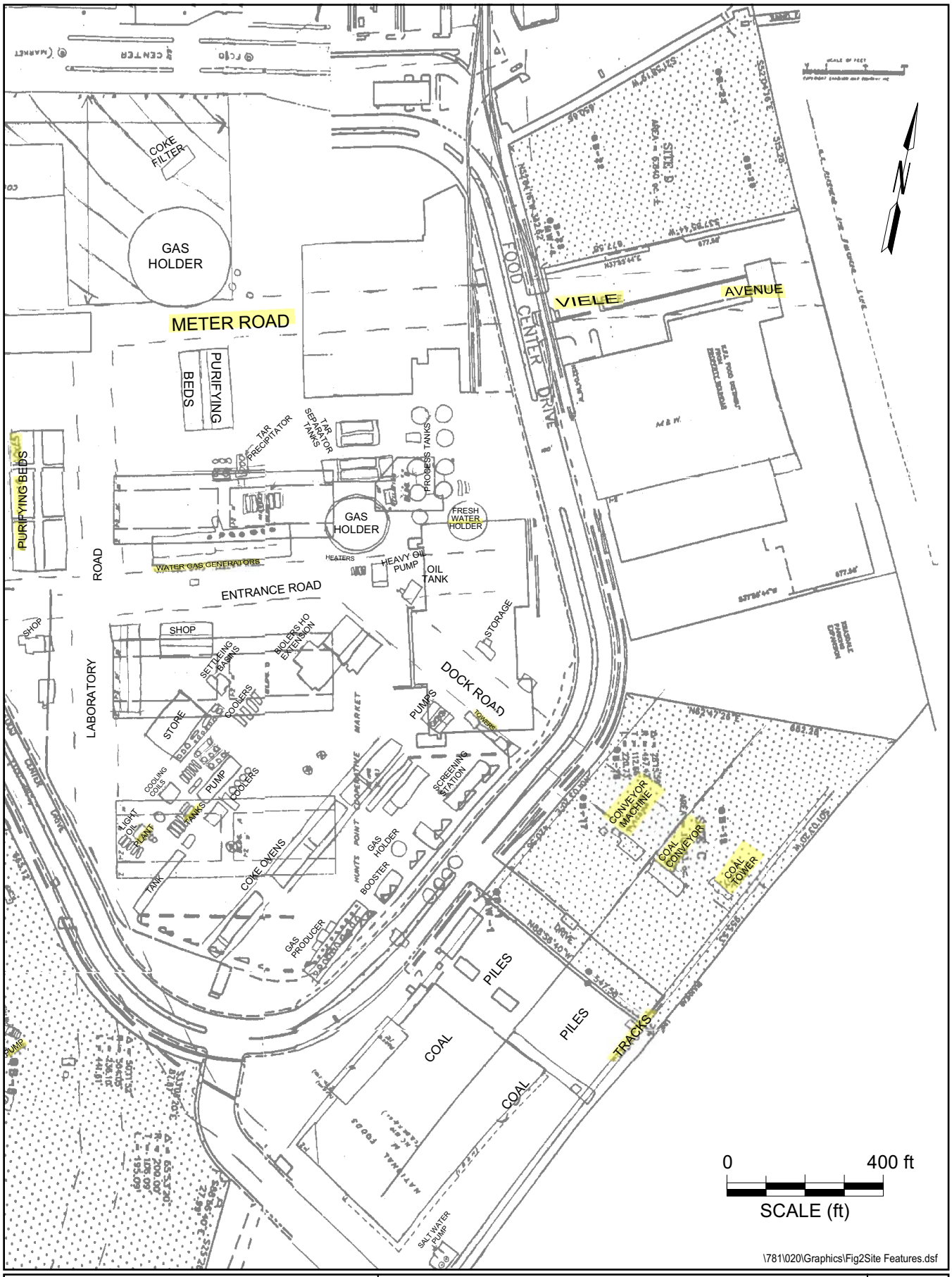
\\781020\\graphics\ReportFigures\Fig1SiteLocation.dsf

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Eastchester Extension Site Location

Hunts Point

Figure 1



\781\020\Graphics\Fig2Site Features.dsf

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Site Features** **HUNTS POINT**	**Figure 2**

4. *Hunts Point Food Distribution Center Redevelopment Plan, Response Plan for the Operating Unit Portion of Parcel E, Bronx, NY* (LMS, November 2000).

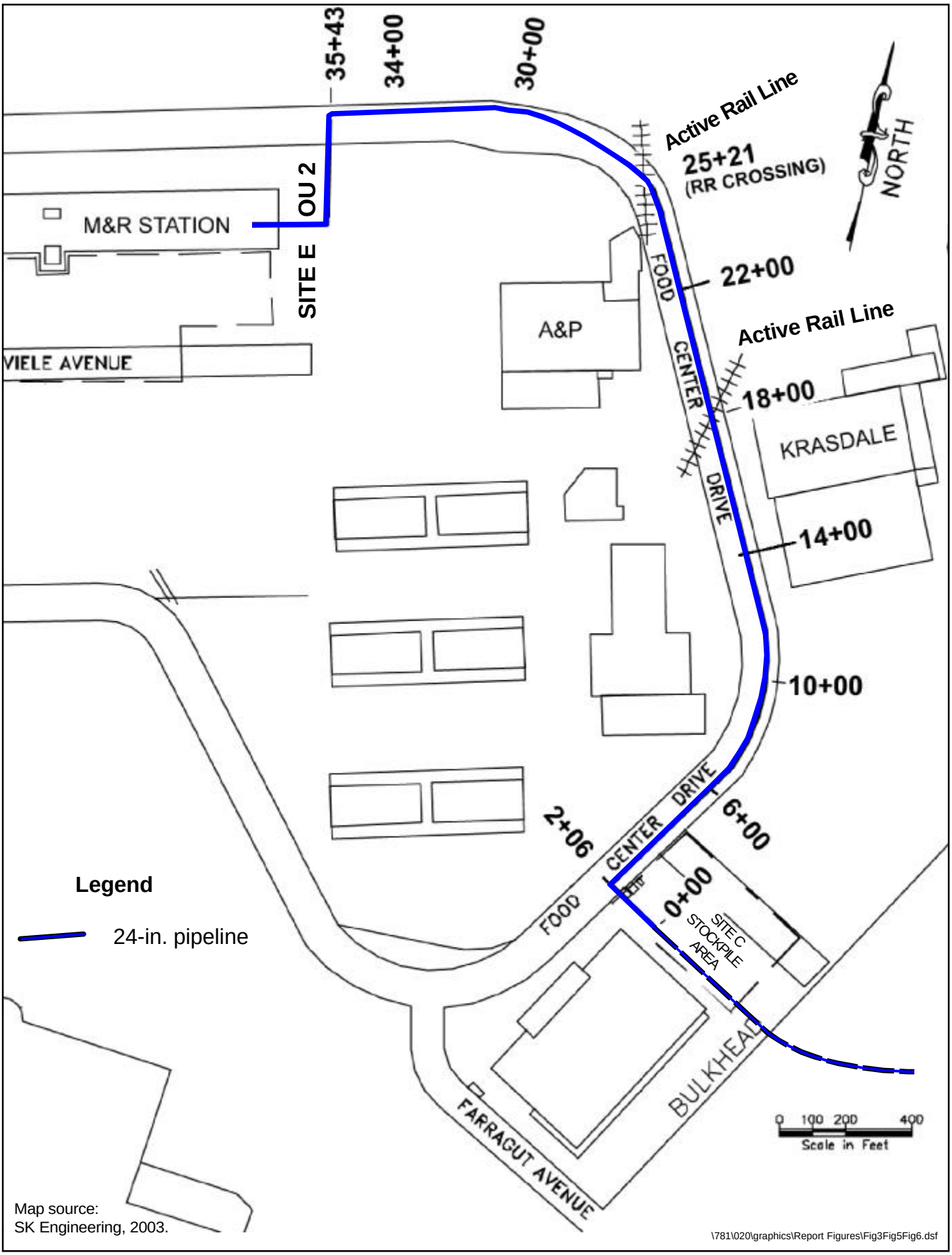
IGTS also conducted additional preconstruction investigations of the soil and groundwater to determine the conditions that would be found along the pipeline route during the excavation and to identify any to which the workers would be exposed hazards.

The actual construction of the IGTS EEP includes a stretch of 3800 feet of underground pipeline that extends from the bulkhead adjacent to the Bronx River at Site C, travels northward under Food Center Drive and then follows East Bay Avenue in a westerly direction until it turns south and west into the IGTS metering and regulatory facility (M&R station) and on to the existing Con Edison gas facility (Figure 3). This construction required extensive excavation and removal of fill material along the pipeline route as well as backfilling around the pipeline with flowable concrete fill. The entire project required the excavation and disposal of approximately 17,500 tons of varying types of fill material, as all of the material removed during excavation was determined to be unacceptable for use as backfill. Excavated fill material was segregated into three different categories: materials containing purifier waste, materials containing coal tar, and non-suspect materials. All of the waste was shipped to one of two pre-approved facilities for thermal treatment.

During the construction portion of the project, monitoring was performed to document existing conditions and content of fill material that was encountered. A community Air Monitoring Program Report was prepared by the consultant and is attached as Attachment G. Personnel closely examined the excavation to identify areas of potential waste consistent with manufactured gas plant (MGP) wastes (i.e. coal tar and purifier bed wastes). Where this material was encountered, depths, thicknesses and conditions were noted by the onsite LMS geologist. This suspect MGP material was removed from the excavation and treated separately for disposal. This Report serves to document the results of LMS' initial Investigation Report (April 2001) and the construction of the pipeline as a remedy or Interim Remedial Measure (IRM) in order to provide the necessary information for a no further action determination (NFA) from the NYSDEC and the New York State Department of Health (NYSDOH). The groundwater testing data from initial and subsequent sampling events is discussed in this report. The Investigation Report has not been formally approved by NYSDEC pending additional analysis of monitoring wells MW-1, MW-3, and MW-5.

INTRODUCTION

This Response Plan/Interim Remedial Measure Report presents the findings of the subsurface investigation conducted by LMS in conjunction with the construction of the Eastchester Extension Project, specifically the Hunts Point section of the pipeline as shown on Figure 3. The pipeline was brought on shore from the East River at Site C using horizontal directional drilling (HDD) methods. The remainder of the pipeline was constructed by open cut method, running a trench northward up Food Center Drive (FCD) within a right of way approximately 20 feet from eastern most curb of the



Map source:
SK Engineering, 2003.

\781\020\graphics\Report Figures\Fig3Fig5Fig6.dsf

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Eastchester Extension Pipeline Path** **HUNTS POINT**	**Figure 3**

roadway. The entire pipeline extended approximately 3800 feet to a point on East Bay Avenue where it made a 90 degree turn south across East Bay Avenue into a parcel immediately adjacent to the Hunts Point Voluntary Cleanup Site known as Site E OU 2. The pipeline was extended into this adjacent parcel approximately 120 ft where it then made a westerly turn into the IGTS M&R station and ended at the Con Edison compressor facility (Figure 3). Both FCD and East Bay Avenue contain numerous underground utilities, and as a result, the IGTS EEP pipeline trench location was limited to a narrow corridor on the eastern side of the roadway. Underground gas and electric conduits border the east wall of the trench and various other identified and unidentified utility lines are contained within the west side of the trench wall and continue westward across FCD. The trench width averaged 6.5 ft with a planned depth of 7 ft to the bottom of pipe but varied between 6.5 and 12 feet in order to obtain the proper clearance around existing utilities.

Prior to the construction work, a very thorough utility survey was conducted in order to determine locations of known utilities. Notification of the utility clearance hotline, as well as a review of available utility maps and historical Site maps was performed prior to the commencement of any subsurface investigation. A review of Site conditions and history via recent soil and groundwater investigations was also conducted prior to construction. Other references that were reviewed to determine Site history and physical setting included; historic Sanborn fire insurance maps, historic topographic maps, Consolidated Edison Company of New York (Con Ed) Site maps, and historic aerial photographs (Aerial Photos 1, 2, 3, 4 and 5). Aerial Photo 6 (August 2001) shows the entire project work area required by IGTS to complete the pipeline installation.

Firms and personnel present during each phase of the pipeline installation were LMS Engineers, Warren George, Inc. (Drilling Services), Stone & Webster / Shaw E&I (Geotechnical and Engineering Services), Horizon Offshore, Inc. (Offshore and Onshore Drill Oversight), Tom Allan Construction Company (Drilling Company), Field Safety Corporation (Health and Safety), Abbas Family (Permitting and PE on Site), Pegasus International (Construction Oversight), Hallen Construction Company (Construction Contractor for IGTS), Miller Environmental (Water Management and Health and Safety for Hallen), ENSR Environmental (Soil and Water Management for IGTS), Essex Environmental, Inc. (Environmental Inspection Team for IGTS), Field Safety Corporation (Health and Safety for IGTS) and Hatch Mott MacDonald (Construction Inspectors for IGTS).

During the construction activities, LMS was on-Site to observe and document the following conditions and concerns:

- Compliance with City and State regulations as required by the Voluntary Cleanup Program (VCP)

- Soil and water management as performed by ENSR



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SCALE IN FEET

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Hunts Point
1954 Aerial Photograph

Aerial Photo 1



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Hunts Point
1966 Aerial Photograph

Aerial Photo 2



0 750 ft

SCALE IN FEET

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Hunts Point
1975 Aerial Photograph

Aerial Photo 3



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Hunts Point
1984 Aerial Photograph

Aerial Photo 4



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LMS Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Hunts Point - Iroquois Pipeline Location** **1994 Aerial Photograph**	**Aerial Photo 5**



Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Hunts Point** **2001 Aerial Photograph with the Iroquois Project Site Outlined** \781\Aerial6huntspt-aerial2001.dsf	**Aerial Photo 6**

- Excavation procedures in accordance with NYSDEC and NYSDOH approved plans

- CAMP monitoring as performed by ENSR and Field Safety

- Noise monitoring as performed by Abbas Family

- Traffic flow in accordance with New York City Department of Transportation (NYCDOT) approved plan

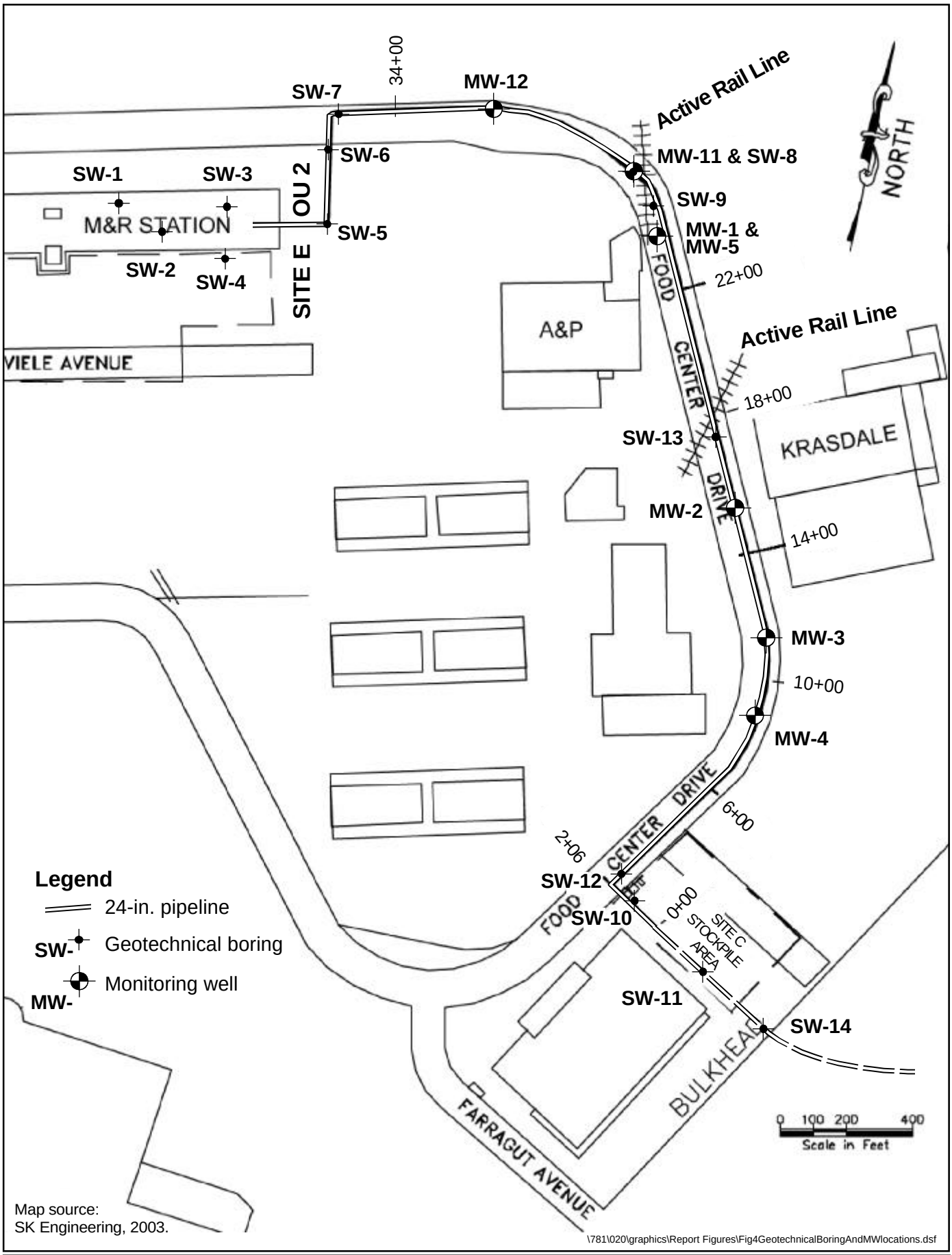
LMS also conducted post-construction groundwater sampling of a number of monitoring wells (MW-1, MW-3, and MW-5) located along the pipeline route.

PRECONSTRUCTION FIELD ACTIVITIES

Below is an overview of the sampling activities and general field activities which took place at Hunts Point prior to the construction of the pipeline. LMS was present for all preconstruction field activities and sampling events. ENSR was responsible for collecting and submitting all samples for this project. ENSR prepared two reports titled Soil Investigation of Food Center Drive and Site C, Hunts Point, Bronx, New York, dated May 2003 and Supplemental Soil Investigation of Site E, Hunts Point, Bronx, New York, dated April 2003 for IGTS which provide a detailed description of their investigation and from which their data has been included in Attachments C, D, E and F of this report.

Geotechnical Borings

A total of 14 geotechnical borings (SW-1 thru SW-14) were installed along the route of the IGTS EEP pipeline path (Figure 4). The work was performed by a licensed well driller from Warren George, Inc. (WGI) of Jersey City, New Jersey. Stone & Webster / Shaw E&I personnel were on Site to log the geotechnical borings, conduct permeability tests, obtain 3" galvanized undisturbed tube samples at specified depths and to collect cores from bedrock at specified locations. An ENSR environmental scientist was on Site for environmental monitoring and soil management. Soil descriptions were also logged by the onsite LMS geologist and are included as Attachment A. Split spoon samples were inspected for physical characteristics including: color, material type and composition, relative grain size and distribution, presence of free moisture, potential confining characteristics. Samples were also screened for obvious contamination including: staining, free petroleum, odor type, and fill description. ENSR took work space air readings using a MiniRae 2000 photo ionization detector (PID) during the drilling process. Where possible, a portion/composite of each split spoon sample was bagged to obtain a head space reading. These readings were documented and can also be found on the boring logs.



\781\020\graphics\Report Figures\Fig4GeotechnicalBoringAndMWlocations.dsf

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Geotechnical Borings and Monitoring Well Locations** **HUNTS POINT**	**Figure 4**

Drilling for the geotechnical borings commenced on 7 August 2002 and was completed on 16 September 2002. At each geotechnical boring, a stainless steel 2-inch diameter split spoon sampler was advanced to the required depth, as indicated by the Stone & Webster representative, using a 150 or 300 lb hammer. After the split spoon sample was recovered and logged, steel casing was either spun or hammered to just above the next sampling depth. The steel casing was advanced until a confining clay layer was encountered, and then set into the top of that layer. The steel casing served as a barrier to prevent any downward migration of contamination from shallow fill into the water table. Blow counts were logged to determine density of soil and falling head tests were conducted to measure permeability of the soil. Where possible, an undisturbed Shelby tube sample was also collected in the silt/clay layer for geotechnical lab analysis.

Once the steel casing was in place, the soil was then augered out and soil cuttings drummed. A mud bath was then set up to condition the hole while drilling, this fluid was also drummed at the completion of the boring. Split spoons were decontaminated between sampling intervals using cold wash techniques. Depth of borings extended to bedrock, refusal or as requested by the Stone & Webster representative. If bedrock was encountered, a 2 in. diameter core for lab analysis was collected as deep as could be recovered. Once the appropriate depth was met, each boring was backfilled with grout to 3 feet (ft) below surface grade (bgs) then filled to surface with bentonite pellets. All drums containing either soil or fluids were sealed, labeled non hazardous and stored in a fenced drum staging area at Site C. Cuttings from each boring were handled separately until they could be sampled at a later date for disposal. Code Environmental was contracted by ENSR to manage the offsite disposal of waste generated during the installation of the geotechnical borings. The waste materials were removed from the site on January 3, 2003 for appropriate offsite disposal.

Following is a brief description of the conditions encountered in the geotechnical borings. These descriptions can also be found on the boring logs included as Attachment A. (reference Figure 4 for boring locations).

Boring SW-14 was located on the bulkhead approximately 15 ft from the edge of the East River bulkhead (Figure 4). The purpose of this boring was to determine depth to bedrock and if it might hinder the Horizontal Directional Drilling (HDD) portion of the project. Fill was encountered to 30 ft bgs. The first 13 ft consisted of concrete and a very fine black ash-like material extended to 30 ft bgs. The next 50 ft consisted of dark gray sands with some iron staining and reoccurring areas of black clay. Bedrock, a weathered medium-grained gneiss, was encountered 80 ft bgs. PID readings remained at or below background for the entire boring with only a slight petroleum type odor in areas of black ash.

Boring SW-11 was located approximately halfway between the HDD entrance point at Site C and the location for the main line valve at Site C. Like boring SW-14, the purpose of this boring was to determine depth to bedrock and if it might hinder the HDD portion of the project. Fill was encountered to 23 ft bgs consisting of asphalt,

sands, gravel, brick, coal ash, cinder, glass and wood. Gray, silty and micaceous clay was encountered from 23 to 35 ft bgs where it transitioned into highly weathered material consisting of iron-stained, micaceous silty sand with pieces of weathered gneiss. An undisturbed Shelby tube sample was taken from 27 to 29 ft bgs. SW-11 was sampled to 92 ft bgs and consisted of very dense sands but bedrock was not encountered at this location. PID readings remained below background throughout the boring with only a slight petroleum type odor in areas of black ash.

Boring SW-10 was located in the area where the main line valve for the pipeline would be constructed. Fill was encountered to a depth of approximately 10 ft bgs and consisted of brick, wood, clay, glass, gravel and sand. Gray silt/clay was encountered below the fill and an undisturbed Shelby tube sample was taken from 14 to16 ft bgs. At 23 ft drilling became difficult, hitting dense iron-stained sands. Refusal was called at 44 ft where the tip of the sampling spoon was lost. PID readings reached 1.4 parts per million (ppm) at the 18 to 20 ft interval while the remainder of the readings for the boring were below background levels.

Boring SW-12 was located just outside the Site C area 45 ft north of the 90 degree pipeline elbow on FCD. Fill was encountered to a depth of approximately 9 ft bgs and consisted of asphalt, gravel, coarse sand, brick, coal cinder, ash and glass. Gray silt/clay was then encountered from 9 to 19 ft bgs. Hard drilling started at 19 ft where dense iron stained sands were encountered and boring was terminated at 32 ft bgs. PID readings were below background throughout the boring.

Boring SW-13 was located south of the 18+00 rail crossing at 17+60. Fill was encountered to approximately 5 ft bgs consisting of dark brown sands, brick, wood, ash, gravel and stones. Below the fill was tan, orange silty sand with pea sized gravel. Gray silt/clay was not encountered. Hard drilling started at 15 ft bgs and boring was ended at 26 ft bgs. PID readings were below background throughout the boring.

Boring SW-9 was located south of the 25+00 rail crossing at approximately 24+50. Fill was encountered to approximately 5 ft bgs consisting of dark brown sands, brick, wood, ash, gravel and stones. Below the fill was road base material consisting of micaceous sands, silt, some clay and gravel. The boring was ended at 31 ft bgs. PID readings were below background throughout the boring.

Boring SW-8 was located north of the 25+00 rail crossing at approximately 25+65. PID readings for samples to 7 ft ranged from 57 to 73 ppm above background and contained a strong petroleum odor, with pieces of wood and black ash present throughout these samples.

Boring SW-7 was located in the vicinity of 35+40. Two attempts were made to complete this boring but driller was not able to advance the drill bit beyond 15 ft bgs either time. About 5 ft of casing was lost in hole along with the drill bit. PID readings were below background throughout the boring.

Boring SW-6 was located at approximately 36+50 inside of Site E OU 2. Gray silt/clay was encountered at 8 ft bgs. Bedrock, a weathered gneissic rock with iron, was encountered at 25 ft bgs. PID readings were below background throughout the boring.

Boring SW-5 was located in the vicinity of 38+50 where the pig receiver would be placed. Surveyors were not able to locate SW-5 to find the elevation. Gray silt/clay was encountered at 11 ft bgs. A Shelby tube sample was taken from 17 to 19 ft bgs. Driller encountered bedrock at 26 ft, and drilled down to 30 ft bgs to take core. Bedrock was slightly metamorphosed, fractured orthoclase granite with milky quartz. Driller then proceeded to drill down to 39 ft bgs and recovered 2.7 ft of core. Bedrock was highly fractured, medium-grained, poorly foliated gneiss with remnant orthoclase and plagioclase minerals. PID readings were below background throughout the boring.

Boring SW-4 was located on the western side of the Con Ed facility. A highly organic, gray silt/clay was encountered at 6 ft bgs. A Shelby tube sample was taken from 14 to 16 ft bgs. Bedrock was encountered at 40 ft bgs, but a sample could not be recovered. PID readings were below background throughout the boring.

Borings SW-3, 2 and 1 were all located within the Con Ed Facility where water was encountered at approximately 5 ft bgs. SW-3 was sampled and drilled to 8.5 ft bgs where a falling head test was conducted. SW-2 was terminated at 38 ft bgs where refusal was encountered. SW-1 was sampled and drilled to 7 ft bgs where a falling head test was conducted. PID readings were below background for all borings on Con Ed property. Soil generated from these borings was drummed, labeled, staged to be disposed of by Con Ed.

Groundwater Monitoring Well Installation and Sampling

Three monitoring wells (MW-11, 12 and 13) were installed along East Bay Avenue beginning at the intersection of East Bay Avenue and FCD, and continuing west along East Bay Avenue to obtain water data on the northern end of the proposed pipeline route (Figure 4) (see Attachment B for well construction diagrams and soil boring logs). The monitoring well installation was performed by a licensed well driller who was under direct supervision of a Stone & Webster geologist. Drilling for the monitoring well installation commenced on 11 September 2002 and was completed on 14 September 2002. All soil and purge water generated from the installation, development and sampling was drummed separately, labeled and staged in the Site C drum cage where it was later sampled and disposed of by Cycle Chem. Existing monitoring wells (MW-1, 2, 3, 4 and 5) installed by LMS as part of the NYCEDC VCP investigation along FCD were also sampled to acquire additional groundwater data.

The monitoring wells were developed and/or purged and sampled by ENSR and samples were analyzed by Veritech for NYCDEP sewer discharge criteria parameters, which included VOCs, naphthalene, PCBs, metals and physical

parameters including temperature, pH, flashpoint, total suspended solids and non-polar materials. Sample results are briefly discussed in the trenching section of this report. The ENSR purge and sample logs are included in Attachment C.

MW-11 was installed approximately 5 ft south of boring SW-8 at 25+60 (Figure 4). Coal tar and wood chips were found in fill to a depth of approximately 5 ft bgs. PID readings ranged between 9.4 and 56 ppm above background for the 1 to 9 ft interval. Water was encountered at 7 ft bgs during drilling. The boring was terminated at 15 ft bgs and the well was set with 13 ft of 10-slot PVC screen and 2 ft of schedule 40 PVC riser. ENSR developed MW-11 on 24 September 2002 using a 2 in. surge block and pneumatic pump and sampled on 1 October 2002. Depth to water at the time of sampling was 6.65 ft bgs.

MW-12 was installed north of MW-11 on FCD at approximately 31+30 (Figure 4). Fill, consisting mainly of construction and demolition (C&D) material, was encountered to 9 ft bgs where gray silt/clay was encountered. PID readings were 26 ppm above background for the interval from 2 to 4 feet but remained below background for the remainder of the boring. Water was encountered at 7 ft bgs during drilling. The boring was ended at 13 ft bgs and the well was set at 10 ft bgs with 8 ft of 10-slot PVC screen and 2 ft of schedule 40 PVC riser. ENSR developed MW-12 on 24 September 2002 using a 2 in. surge block and pneumatic pump and sampled on 1 October 2002. Depth to water at the time of sampling was 6 ft bgs.

MW-13 was installed within the boundaries of Site E OU 2 at approximately 36+00 (Figure 4). Fill containing coal tar and purifier waste was encountered to approximately 4 ft bgs. PID readings were 9.2 ppm above background for the interval from ground surface to 2 ft bgs and were below background for the remainder of the boring. Water was not encountered during drilling but came in as well was set. The boring was ended at 12 ft bgs and the well was set as a stick up well with 10 ft of 10-slot PVC screen and 5 ft of schedule 40 PVC riser, including 3 ft of riser above ground. ENSR developed MW-13 on 24 September 2002 using a 2 in. surge block and pneumatic pump and sampled on 1 October 2002. Depth to water at the time of sampling was 6.3 ft bgs.

MW-1 and MW-5 were purged and sampled on 3 October 2002. Free product (fluid coal tar) was present in the bottom of both wells. Approximately 10 inches of coal tar was present at the bottom of MW-5. The wells were sampled following removal of much of the coal tar from the well casings. Each sample was analyzed for VOCs, Semi-volatile organics, PCBs, and metals. The results are shown on Table 3 and basically indicate that compounds very typical to coal tar were present in the samples (benzene, toluene, ethlybenzene, and naphthalene. Concentrations of BTEX compounds were very similar in both wells (7.8 and 10.6 mg/l total VOCs). Water quality parameters were not collected for either well due to the presence of coal tar. These wells are located in close proximity of each other at approximately 23+80 along the pipeline (Figure 4).

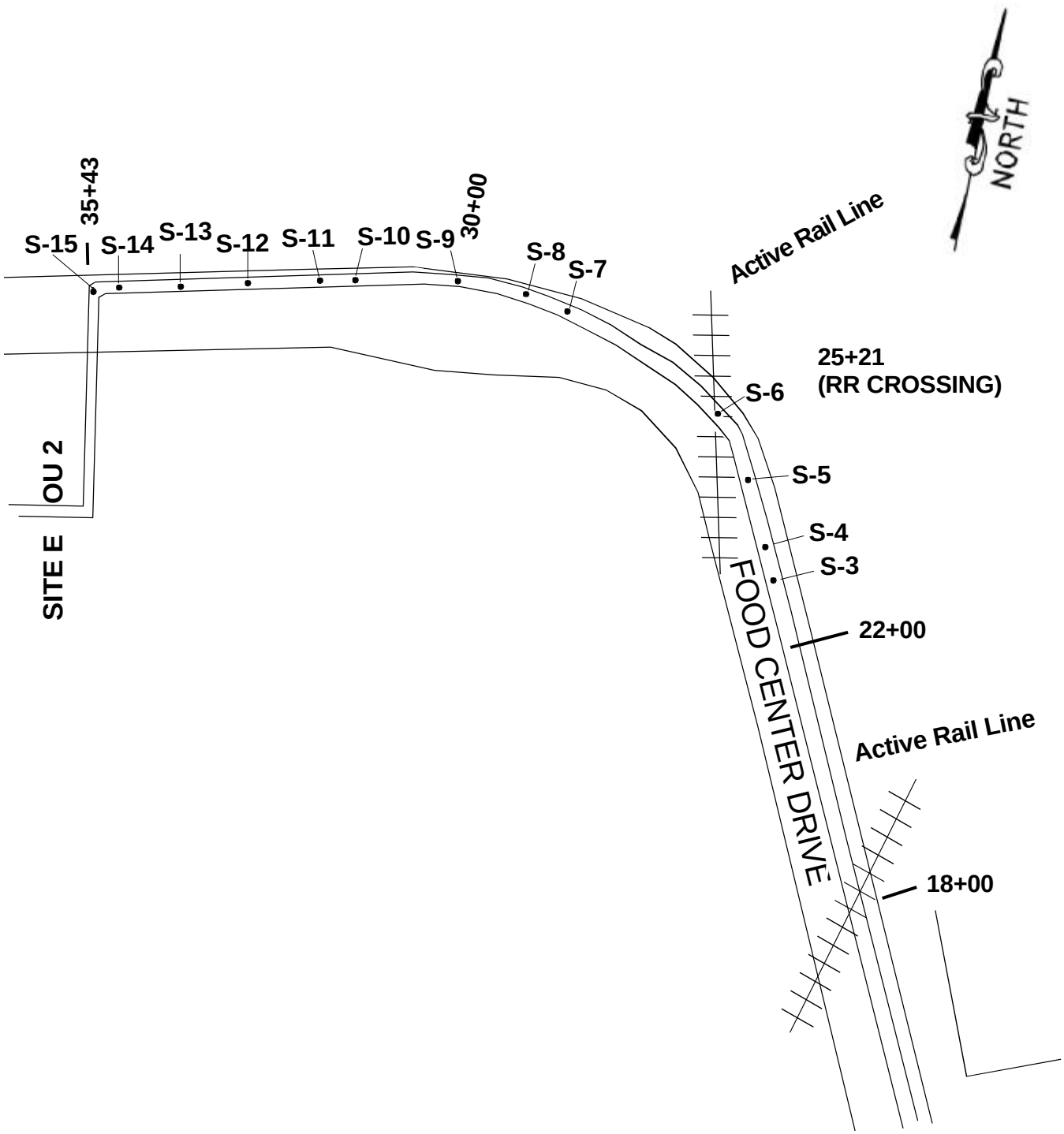
MW-2, 3 and 4 (which were located at 15+40, 11+35 and 8+85 respectively) were abandoned and actually removed during the pipeline installation. Prior to abandonment, MW-2 and MW-3 were purged and sampled on 4 October 2002. MW-4 was purged and sampled on 2 October 2002. MW-2 and MW-4 were found to be virtually free of contaminants typical of the MGP type waste (BTEX, Naphthalene). Whereas MW-3 was found to contain concentrations above the Class GA DWS but well below those in MWs 1 and 5.

On 22 December 2003, under the supervision of LMS, replacement wells for MW-2, 3 and 4 were drilled and installed in close vicinity to their original locations by a licensed driller. All wells were drilled and set at a depth of 15 ft bgs with 10 ft of 10-slot PVC screen and 5 ft of schedule 40 PVC riser.

On July 9, 2004, LMS and their subcontractor American Environmental Assessment Corp. mobilized to the site with a Vac-truck and a steam cleaner to remove tar that had infiltrated into monitoring wells MW-1 and MW-5. The steam cleaner was set to an operating temperature of 220° F and hot water was injected into the well near the bottom of the well through a thin pipe. The pipe was then removed and the vac-truck was used to vacuum out the water and tar. This was performed repeatedly on both wells in an attempt to remove the tar. Although some tar was recovered from MW-5, the flushing of the well was not successful in that the well screen was not cleared of tar and some tar remained in the well. The flushing of MW-1 appeared to be much more successful in that the majority of the tar in the base of the well was removed. Each well was allowed to recover for a one week period before they were purged and resampled. MW-5 still had residual tar when sampled but MW-1 appeared to have remained clear of tar. The wells were sampled and analyzed for BTEX, Naphthalene, and Cyanide. Table 3 shows the comparison between the two sampling events for BTEX and Naphthalene (cyanide was not analyzed for in the earlier samples and was added at the request of NYSDEC). The results of the 2002 and 2004 VOC samples indicates that the earlier concentrations were much higher (up to an order of magnitude) than the current conditions. This could be related to several factors including the fact that the wells were initially sampled and found to contain some coal tar in the casing, or that the actual construction of the pipeline and associated excavation of waste material has contributed to the improvement of the groundwater condition. Both MW-1 and 5 were installed in a relatively small area where coal tar was encountered and although material within the trench was excavated there is residual waste along the edges of the area. The current conditions nonetheless are still evident of the conditions related to fill material in the surrounding area. Cyanide concentrations were found above the NYS Class GA drinking water standard of 220 ug/l at two locations (MW-1 and MW-3) at concentrations of 306 and 258 ug/l respectively. This is believed to be associated with thin layers of residual purifier waste.

SOIL SAMPLING

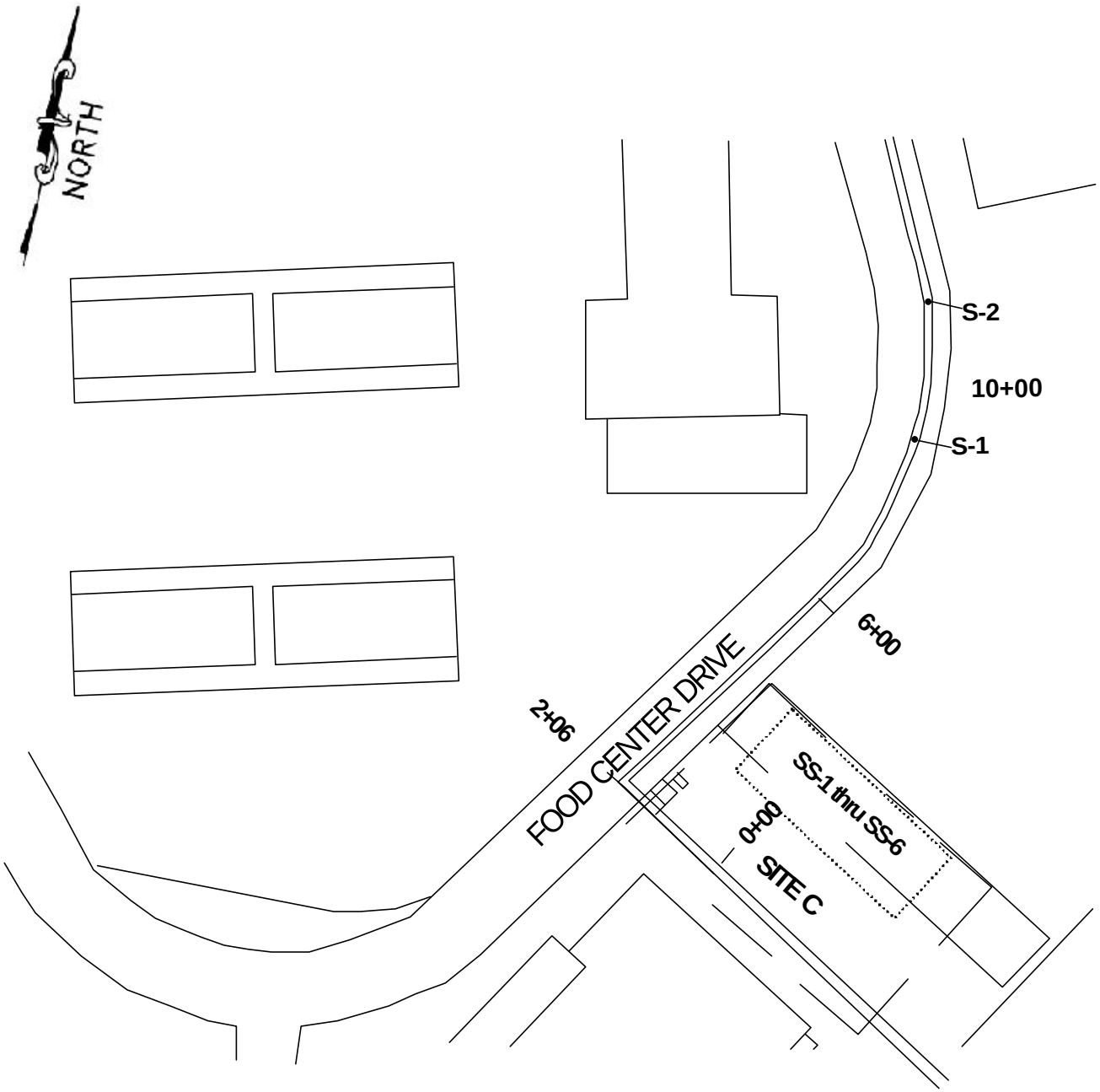
FCD and Site C



Map source:
SK Engineering, 2003.

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LMS Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**ENSR Geoprobe Sampling Locations along Trench Excavation Path (North End)** **HUNTS POINT**	**Figure 5**



Legend

S-8 Geoprobe Sample

SS-1 Shallow Geoprobe Sample

Trench

0 100 200 400
Scale in Feet

Map source:
SK Engineering, 2003.

\781\020\graphics\Report Figures\Fig3Fig5Fig6.dsf

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**ENSR Geoprobe Sampling Locations along Trench Excavation Path (South End)** **HUNTS POINT**	**Figure 6**

Environmental Probing Investigations, Inc was contracted by ENSR to advance fifteen soil borings (S-1 thru S-15) along FCD and five shallow surface soil borings (SS-1 thru SS-5) at Site C (Figures 5 and 6). Work commenced on 18 December 2002 and continued through 23 December 2002 and 2 January 2003 using a Geoprobe® direct-push split-spoon sampler. Samples were collected in dedicated acetate liners and upon removal from the sampling tube, each sample was closely inspected for physical characteristics including: color, material type and composition, relative grain size and distribution, presence of free moisture, potential confining characteristics, evidence of contamination, and degree and orientation of contaminated bedding.

For the FCD samples an environmental scientist from ENSR logged each boring noting the depth at which groundwater and/or bedrock was encountered, if visual evidence of contamination was identified, and if a confining layer was located. In the event that a confining layer was encountered, it was not penetrated. Two samples were collected per boring. The first soil sample was collected from a depth where visual or olfactory signs of contamination were observed and/or from a depth just above the water table. The second soil sample was taken from approximately one foot away from the original sample and a composite was then collected to represent the material that would be excavated and disposed. Figures 5 and 6 show the approximate location of each soil boring advanced as part of this sampling effort. A copy of the ENSR soil boring logs is included in Attachment D and a copy of the ENSR soil boring sample results are included in Attachment E. The sample results are briefly discussed and used for comparison to pile sampling data discussed later in this report.

The Site C soil samples were collected from each boring to a maximum depth of 40 inches. The samples were collected east of the HDD line at Site C through the asphalt.

Soils that were generated at each boring were placed back into the hole, which was then grouted and patched with asphalt.

CONSTRUCTION FIELD ACTIVITIES

PIPELINE CONSTRUCTION, Horizontal Directional Drilling Segment

This section is a chronological description of the Horizontal Directional Drilling (HDD) segment of the project. Although this does not necessarily relate to the onshore remediation, it is noteworthy to include this documentation in the report as it was a significant effort with many obstacles and the time required to complete this portion of the project impacted the overall schedule.

Drilling activities started at Site C for HDD on 1 November 2002. This leg of work consisted of the installation of approximately 4500 feet of 24 in. pipeline by HDD at

the shore approach at Hunts Point to the pipeline which was placed earlier along the bottom of the East River, then up to North Port, Long Island.

Firms and personnel present during the HDD segment were LMS Engineers, Horizon Offshore, Inc. (Offshore and Onshore Drill Oversight), Tom Allan Construction Company (Drilling Company), Miller Environmental (Water Management), ENSR International (Soil Management), Essex Environmental, Inc. (Environmental Inspection Team), Field Safety Corporation (Health and Safety), Abbas Family (Permitting and PE on Site) and Pegasus International (Construction Oversight). The pipe work on the East River was completed by the Horizon Lay Barge (Photo 1) and all onshore work at Hunts Point Site C was completed by the HDD Rig (Photo 2).



Photo 1. Horizon Lay Barge



Photo 2. HDD Drilling Rig

Environmental inspectors (Essex) were on Site 24-hours per day to maintain Site conditions by monitoring for litter, incidental machinery spills and overall environmental compliance.

A noise barrier was constructed around the drilling Site to keep noise levels down for the surrounding property owners. Noise level measurements were taken and recorded by Abbas Family. It was found that levels were not exceeded even when drilling rig was at maximum pulling strength to pull in the product pipe.

At the start of the HDD activities, a 42 inch diameter steel casing approximately 70 ft long was hammered into the HDD entrance point at Site C aimed towards the East River at an eleven degree angle (Photos 3 and 4). In the first attempt to hammer the casing into the ground, the casing split where the large piston hammer was attached. The casing was repaired and successfully hammered into the subsurface on 2 November 2002. On 5 November 2002, the augers were advanced into the casing to remove soil from inside the casing. All cuttings from the casing were pulled back and placed into roll-off containers on Site. The purpose of installing the casing was to help prevent returning drilling fluids from coming into direct contact with possible contaminants in the shallow surface soils. The casing was also used to minimize undercutting and erosion around the drill pipe. In February 2003, five roll-off containers containing cuttings from inside the casing and the area excavated for the mud pit were loaded and hauled for disposal at Casie Protank in Vineland, NJ.



Photo 3. Casing



Photo 4. Piston Hammer

A drilling mud system was set up to maintain down-hole conditions throughout the drilling and reaming process. The drilling mud was mixed at the ground surface, pumped down through the drill string and pumped out through the jet bit or mud motor. Bulk-bagged bentonite and a silica gel were used to weight the mud mixture. The mud returns were pumped out of the mud sled (Photo 5), then run through a shaker where solids were separated and placed in a roll-off container. When each roll-off container was full, it was loaded and hauled by Miller Environmental to Clean Waters of New York in Staten Island for disposal and replaced with a new lined container. Containers were covered when loaded to prevent any spills or dust from leaving the container during hauling.

On 6 November 2002, drillers started the pilot-hole by pushing the bottom hole assembly (BHA) out past the casing and into the formation towards the East River (Photo 6). The BHA cut through rock formations, provided survey data, and was used to steer the drill string. The direction path was tracked by a "TruTracker" System which followed a surveyed magnetic line that was placed from the bulkhead at Site C out along the river bed floor to the exit pit. Drill pipe joints, averaging 30 ft in length and 8 inches in diameter each followed the BHA. Additional surveys on land and in shallow water were taken to assure the pilot hole was on path. When the BHA was approximately 300 ft past the bulkhead, it began hitting some difficult areas that were steering the BHA off line.



Photo 5. Mud Pit



Photo 6. Pushing in BHA

On 7 November 2002, the drill head had made it approximately 1100 ft past the bulkhead but a joint had twisted off so the drill pipe had to be removed from the hole. Drilling resumed on 8 November 2002 with the broken joints remaining in hole.

The BHA reached the exit pit in the East River on 14 November 2002 with approximately 4545 ft of pipe in the hole over 4376 ft of straight line distance from the bulkhead at Site C.

On 15 November 2002, reaming of the pilot hole commenced with running an 18 in. diameter reamer from land out to the support barge. Once the 18 in. ream was complete, a 26 in. diameter reamer was placed on the drill string. The 34 in. diameter ream (Photo 7) was started on 21 November 2002 and removed at the offshore barge on 22 November 2002. The 44 in. diameter reamer was launched on 23 November 2002 but was halted on 25 November 2002 by Essex and had to be pulled back onto land due to mud loss on the barge. When the 44 in. diameter reamer was pulled out on 26 November 2002, the reamer was virtually destroyed (Photo 8).



Photo 7. 34 inch Reamer



Photo 8. Stripped 44 inch Reamer

On 27 November 2002, a new 42 in. diameter reamer (Photo 9) was delivered to the support barge (Photo 10) and launched towards land. This ream was unsuccessful due to down-hole obstructions so the reamer was pulled back and a fly cutter launched to clear the path. On 29 November 2002, the presence of the obstructions was still evident so it was decided to drive through again until the cutter moved freely. From 1 December 2002 through 4 December 2002, several passes with several sized reamers and cutters cleared the hole from land to the barge and back. On 4 December 2002, the 42 in. reamer reached the exit pit and the barrel reamer was launched. On 9 December 2002, the product pipe was hooked to the pulling head and the contractors started pulling in the pipeline. On 10 December 2002, the pipeline encountered the hard rock area previously encountered by the reamers and could not be pulled in towards the shore. On 18 December 2002, in an attempt to free up the product pipe, the contractors had the barge pull out away from the shore, which resulted in breaking the drill string in two.



Photo 9. 42 inch Reamer



Photo 10. Boating Reamer to Barge

On 20 December 2002, a new pilot hole was started. On 21 December 2002, HDD work was shut down for the holiday season and drilling resumed at Site C on 24 January 2003. After several passes with reamers and swabs, on 14 February 2002, the contractors once again hooked to the product pipe and started pulling in at approximately 130,000 lbs. Pipe was successfully pulled to the surface at Site C on 14 February 2002 (Photo 11).



Photo 11. HDD Entry Point

PIPELINE CONSTRUCTION, Land Segment

Firms and personnel present during pipeline excavation were LMS (Environmental consultant for NYCEDC), Hallen Construction Company (Construction Contractor for IGTS), Miller Environmental (Health and Safety for Hallen), ENSR Environmental (Soil and Water Management for IGTS), Essex Environmental, Inc. (Environmental Inspection Team for IGTS), Field Safety Corporation (Health and Safety for IGTS) and Hatch Mott MacDonald (Construction Inspectors for IGTS).

Stockpile Area at Site C

The Site C concrete lot was initially covered with trash, stripped cars, abandoned buildings and overgrown vegetation. Subcontractors for IGTS were hired to clean out the area and to demolish all but one of the abandoned buildings on Site. Some of the building foundations were also broken up and removed to assure they did not interfere with the installation of the facilities.

One of the first efforts on the land side of the project included the construction of the soil staging area. This was located in the southern corner of the lot. Hay bales and high density polyethylene (HDPE) liners were used to create separate cells where excavated soil would be placed.

Air monitoring stations to monitor dust from piles were set up by ENSR inside of the fenced staging area, up and downwind of the piles. Data was collected at each measuring point using a Data RAM and a PID. Soil piles at Site C were covered at the end of each work day and dust control equipment was on Site for any time period when piles were not covered.

Test Pits

Prior to the start of trenching activities, a Vac-Hoe (Photo 12) was used to confirm the locations and depths of all known utilities that would cross the pipeline path and to plot the depth of ground water along the route. Once a known utility was found, all soil cuttings were placed back into the pit and asphalt patch applied to the surface (Photo 13).



Photo 12. Vac-Hoe

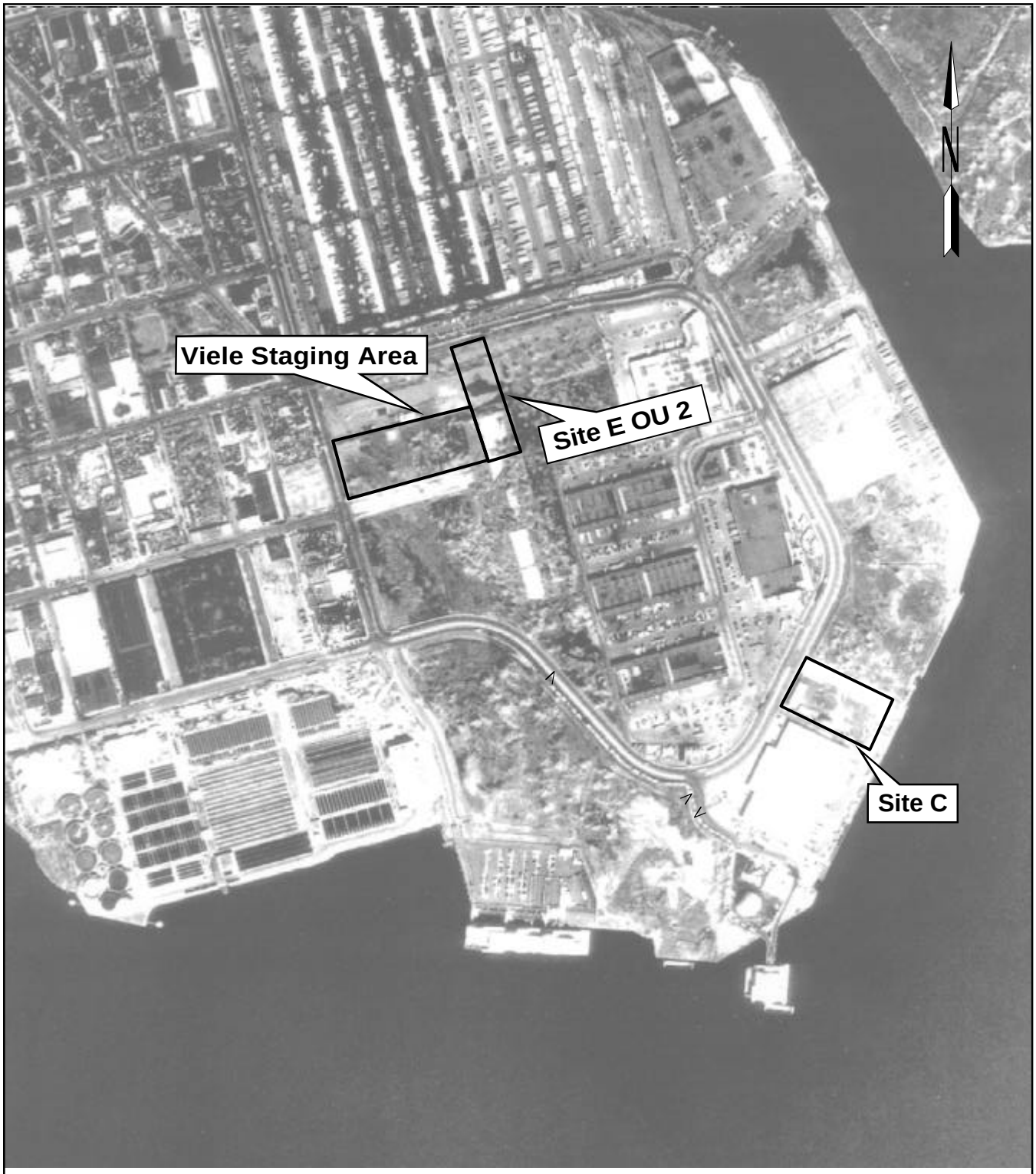


Photo 13. Test Pit

Test pit work commenced on FCD on 25 February 2003. Air was monitored by Miller Environmental and ENSR International both companies using a Data RAM and a PID. The last of the twenty six test pits were completed on 12 March 2003.

Viele Avenue Staging Area

The Viele Avenue area is 6.82 acres in size and approximately 840 ft by 400 ft, bordered on the north by Con Ed, on the east by Site E OU 2, on the south by Site A OU1 and Site A OU2 and on the west by Halleck Street (Figure 7). A 200 ft by 160 ft area located at the south eastern corner containing a large debris pile was fenced off and not included in the staging area work space. Site preparation consisted of tree cutting and vegetation removal followed by surface grading necessary to provide a consistent sub-base in order to lay down a geo-textile fabric and 6 inches of crushed stone. Grading commenced on 26 February 2003. Grading was not conducted in the vegetated low area which was covered in water found on the eastern side of the Site adjacent to the concrete slab. Fill from Bronx City Recycling was brought in to



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Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**Hunts Point Viele Staging Area - 1994 Aerial Photograph**	**Figure 7**

construct a temporary access ramp to the existing concrete slab. Wood mats were also brought in to support the fill and prevent sinking in very soft soils. The concrete slab on the northeastern side of the Site was used as a fabrication and equipment staging surface. A chain link fence was installed in areas required to enclose work areas and repairs were made to the existing fence as necessary. The exposed rebar in the concrete foundations within the work space limits was cut flush with surface so as not to pose a safety risk.

LMS was present on Site to inspect areas that were exposed during grading and small trenching activities. A trench, approximately one foot wide and 2 to 3 ft in depth, was advanced for the electric and telephone conduits on 28 February 2003. During Site preparation, no visible contamination was unearthed or identified. A fence across the east side of the Site was built to separate the Site E OU 2 property from the staging area. No soil was removed during these activities.

Surface sampling by ENSR personnel began on 3 March 2003 and was completed on 10 March 2003 at Viele Avenue staging area, once the staging area was cleared and graded. The samples were initially intended to be collected using a hand auger but due to the frozen ground the samples were collected with the assistance of a back hoe. Twelve surface samples (SS-6 thru SS-19, omitting SS-9 and SS-13) were collected from depths of 0 to 6 inches. The results are consistent with data from fill at other VCP Sites within Hunts Point and data tables from ENSR's report titled *Supplemental Soil Investigation of Site E, Hunts Point, Bronx, NY* (ENSR Corporation, April 2003) are provided in Attachment E. A copy of the ENSR soil boring logs is also included in Attachment D.

Bore Pit Excavations

Excavation for the jack pit and exit pit at Site C to bore under the first railroad crossing for the pipeline (location 1+80, Figure 3), commenced on 17 March 2003. Jack Pit #1 (includes both bore pit and exit pit) dimensions were approximately 10 ft wide by 42 ft long and 9 ft deep. The exit pit excavation started on 19 March 2003. The dimensions of the exit pit were 10 ft wide by 21 ft long and 7 ft deep. Soils in both pits were considered non-suspect and contained a very coarse and permeable gravel layer that allowed water to easily flow into both pits. Due to the high flow of water in this area, Hallen did not attempt to bore this crossing.

Excavation of the second jack pit located at the 18+00 railroad crossing was started on 26 March 2003 with dimensions of 10 ft wide by 40 ft long and 11 ft deep. Excavation for the exit pit at 18+00 started on 28 March 2003 with the same dimensions as the second jack pit. Due to refusal in this area, Hallen did not complete boring at this crossing.

TRENCHING

Trenching commenced on 7 April 2003 at the south edge (17+10) of the second jack pit moving south on FCD using a 710D Rubber Tired Back-hoe and/or the M320

Excavator (Figure 3). The trench width was 6.5 ft with a planned depth of 7 ft unless proper clearance warranted the trench to be deeper around existing utilities. During all excavation activities, LMS was on Site and documented any occurrences of contaminated soil such as coal tar, purifier waste or petroleum saturated soils. Prior to excavation activities, it was decided between IGTS, NYSDEC and LMS that if purifier type waste and /or coal tar was encountered below the intended trench bottom, excavation would continue to a depth of 8.5 ft bgs. If contamination was found to extend beyond 8.5 ft, it would be allowed to remain in place provided the following two conditions were met:

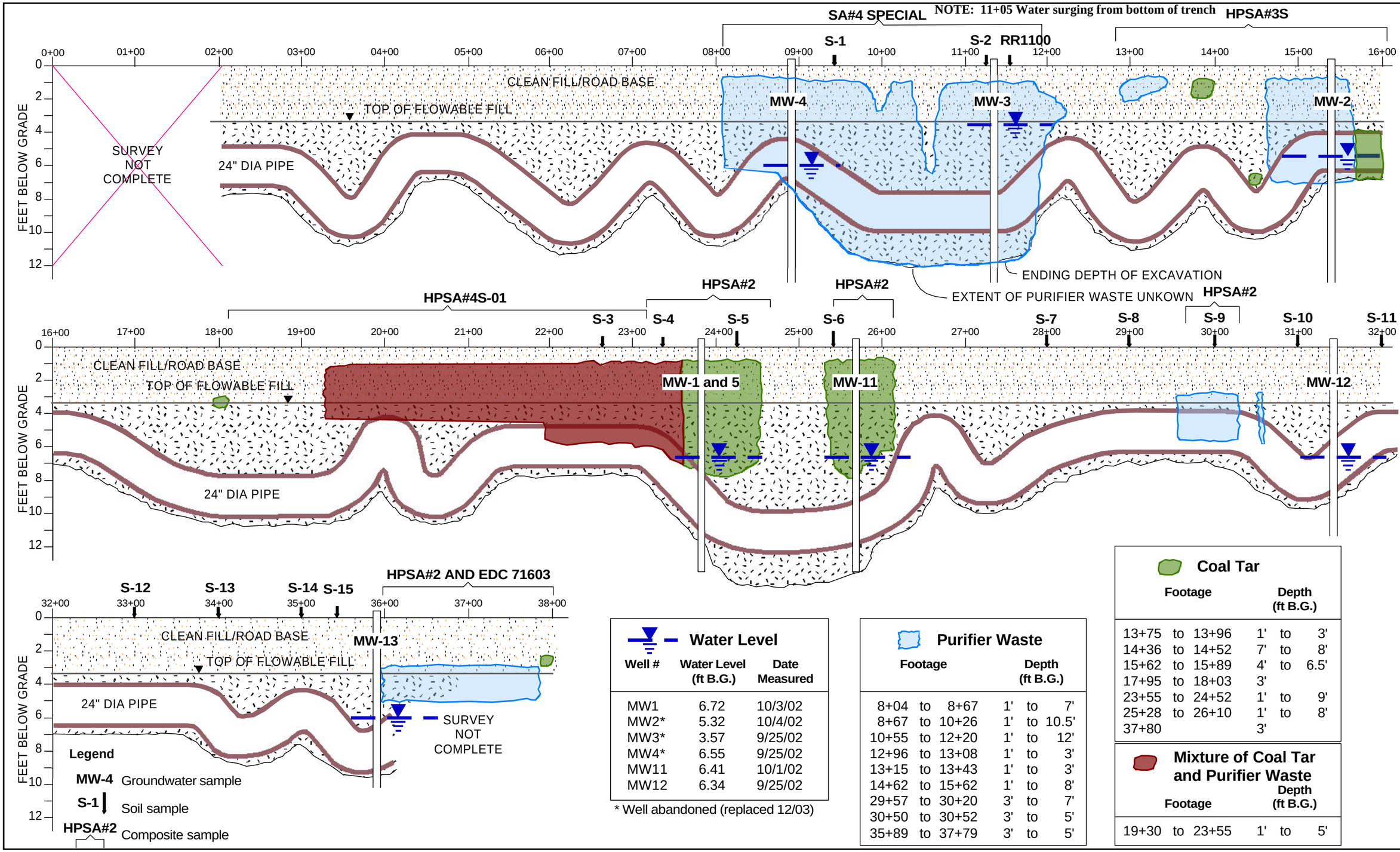
1. Documentation is provided on historical or current sampling data that the groundwater at this location is not significantly impacted by the purifier waste.
2. The remaining purifier waste is covered with flowable fill prior to backfilling the pipeline trench.

The excavation between 10+50 and 12+20 was extended well below the saturated zone in an area where purifier waste was encountered in the trench from just below the road bed (±1) to 12 ft below grade. The water table in this area was variable and a significant problem was encountered in the dewatering as water was found to enter the excavation in significant quantities from depths that were believed to be well above the water table.

Samples of the groundwater from this area were collected in order to determine the source of the large volume of water entering the excavation. This same issue was encountered in at least one other area of the trench but this was the only area where it created a situation that prevented removal of all of the waste material.

In this area, the increased excavation depth (performed as per the agreement with NYSDEC to remove waste deposits) coupled with the huge influx of groundwater/surface water created an undercutting condition. It was determined that additional excavation causing voids in the adjacent soils. This threatened the roadway and sidewalk stability and it was determined that the hole would be back filled with flowable fill to stabilize the bottom and sidewalks. Figure 8 shows an area between MW-4 and MW-3 where the depth to groundwater was noted to change substantially. This is the area where groundwater infiltration was a construction issue. An investigation into the water flowing into the excavation was narrowed to potential open fire hydrants that were leaking into the soil or water lines that were in need of repair. This assumption was based on testing of one buildings water supply by shutting it off temporarily and noting that after a period of time the flow into one excavation slowed.

Although figure 8 shows that the bottom of the purifier waste was not known in the area between 10+00 and 12+00, it is however believed that the vast majority of this material was actually excavated and disposed of. Visual confirmation was not possible due to the water condition.



Water Level

Well #	Water Level (ft B.G.)	Date Measured
MW1	6.72	10/3/02
MW2*	5.32	10/4/02
MW3*	3.57	9/25/02
MW4*	6.55	9/25/02
MW11	6.41	10/1/02
MW12	6.34	9/25/02

* Well abandoned (replaced 12/03)

Purifier Waste

Footage			Depth (ft B.G.)		
8+04	to	8+67	1'	to	7'
8+67	to	10+26	1'	to	10.5'
10+55	to	12+20	1'	to	12'
12+96	to	13+08	1'	to	3'
13+15	to	13+43	1'	to	3'
14+62	to	15+62	1'	to	8'
29+57	to	30+20	3'	to	7'
30+50	to	30+52	3'	to	5'
35+89	to	37+79	3'	to	5'

Coal Tar

Footage			Depth (ft B.G.)		
13+75	to	13+96	1'	to	3'
14+36	to	14+52	7'	to	8'
15+62	to	15+89	4'	to	6.5'
17+95	to	18+03	3'		
23+55	to	24+52	1'	to	9'
25+28	to	26+10	1'	to	8'
37+80			3'		

Mixture of Coal Tar and Purifier Waste

Footage			Depth (ft B.G.)		
19+30	to	23+55	1'	to	5'

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0 100 200 ft
Horizontal Scale (ft)

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NOTES: - Depth of contaminants fluctuates in each area.
- Top of flowable fill = 3.3 ft B.G., bottom is 0.5 ft below bottom of pipe

Excavation Cross-Section

IROQUIOS PIPELINE • HUNTS POINT

Figure 8

During the time that this condition was noted, LMS contacted NYSDEC to describe the problem and present the engineering control that was previously approved (flowable fill).

Trenching activities were planned as a one crew effort but due to the dewatering activity along the pipeline path, a second excavation crew was brought on the job in May 2003. Combined, these crews generated approximately 300 cubic yards of soil per day that was staged at Site C.

The Community Air Monitoring Program (CAMP) was conducted by Field Safety Corporation upwind and downwind of both trench excavations using a Data RAM particulate monitor and a PID. Air monitoring was also conducted in the trench and workspace area by Miller Environmental.

For trench excavation, asphalt and concrete was stripped back, loaded and delivered to the Bronx City Recycling facility. Soil and fill were then excavated using a Caterpillar M320 Wheel Excavator (Photos 14 and 15). Trenches were opened in 24 foot sections pulling back soil/fill in lifts. As the material was removed, any changes were noted and screening was performed by ENSR using a PID. Soils were visually inspected by LMS for previously described signs of waste material. As the excavation was advanced and the initial screening at the trench was completed, the soils were trucked to the Site C soil staging area and placed in the appropriate pile. LMS documented where each load was staged to help correlate sample results to the excavated areas. Before the truck departed, each load was visually inspected for loose material and/or saturated soils in order to prevent littering of the roadway.



Photo 14. Trench Excavation



Photo 15. (Right) Open Trench

Measurements were taken each day by working off of mapped landmarks or measuring from a known reference point. Areas that contained waste materials (i.e. coal tar or purifier waste) were logged and mapped, and depth to ground water was noted. A new trench alignment was started on 28 June 2003 due to a previously unidentified sanitary sewer line running parallel with the pipeline path. The new alignment started at approximately 30+65 and measured 23 ft from the north curb to the north edge of trench. This new pipeline alignment continued until the 90 degree turn across East Bay Avenue into Site E OU 2.

A cross section of the pipeline path and materials encountered as well as sampling locations is illustrated in Figure 8 and will be discussed in detail later in this report.

The HDD entry point (location 0+00) at Site C was the last area of excavation work to be completed for the pipeline. Once this area was excavated and in order for the HDD line to be brought to the correct elevation for the tie into the land line (Photo 16), the steel casing had to be excavated and cut back. Approximately 43.5 feet of the original 70 feet of HDD casing that was hammered into the subsurface was cut and removed (Photo 17).



Photo 16. Tie In Area at Site C



Photo 17. Cutting Casing

On 19 August 2003, the final tie in weld at Site C was completed (Photo 18) and on 20 August 2003, the final tie in weld from the Iroquois line to the Con Ed line was completed at the M&R station. The casing opening was sandbagged (Photo 19) and later flowable fill was poured around the head of the casing to prevent slumping or migration of soils back towards the river as requested by the NYCEDC.



Photo 18. Final Tie In



Photo 19. Sand bag Entry Point

Pile Sampling

All soil that was excavated was placed in the appropriate pile at Site C as determined by ENSR. ENSR gained approval from two disposal facilities including Casie Protank and Clean Earth of New Castle Inc. for all material generated during the pipeline installation. In total, Casie Protank agreed to accept 15,500 tons of material

and Clean Earth agreed to accept 4,000 tons of material. The following descriptions explain the five composite sampling events performed by ENSR at the soil piles located at Sites C and E as wells as trench sampling procedures. A copy of the ENSR pile sample results can be found in Attachment F. ENSR analyzed soils as requested by the specific disposal facility and the results are summarized in Tables 1 and 2.

ENSR Sample ID HPSA#1-01 was sampled on 14 April 2003. This pile was designated for "Non-suspect" soils as there was no indication during excavation of the presence of coal tar or other waste type material. Sample results showed however, that semi-volatiles and volatile organics were present but, since the disposal method would be the same for non-suspect and suspect material, this did not create any disposal issues or delays. As a general practice, any soil that did not show visible signs of contamination and did not register on the PID was sent to this pile. This pile was sampled by obtaining 3 samples with 15 aliquots each (Photo 20). The 45 points were hand augered to 3 ft and a sample was taken. The VOC portion of the sample was taken immediately from the auger at each point and remaining samples were combined and mixed in a stainless steel bowl to create a composite sample of the pile (Photo 21). Analyses performed by ENSR included Full toxicity characteristic leaching procedure (TCLP) (organics and inorganics), poly chlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), Resource Recovery Conservation and Recover Act (RCRA) Characteristics, Asbestos, Base neutral/acid extractables and Total volatile organic compounds (VOCs).



Photo 20. Pile Sampling Points



Photo 21. VOC Sampling

ENSR Sample ID HPSA#2-01 was sampled on 11 June 2003 and encompassed soils excavated from the area from approximately 23+55 to 30+52 and Site E OU 2. This pile was sampled by obtaining 3 samples with 15 aliquots each using the same method as sampling for HPSA#1-01. Analyses performed by ENSR included Full TCLP, PCBs, TPH, polyaromatic hydrocarbons (PAH), Toxicity, benzene toluene ethylbenzene and xylenes (BTEX), and RCRA Characteristics.

ENSR Sample ID HPSA#3S was sampled on 14 May 2003. This pile covered soils from the project excavation from approximately 13+00 to 16+00. This pile was sampled by obtaining 2 samples with 15 aliquots each using the same method as

sampling for HPSA#1-01. Analyses performed by ENSR included Full TCLP, PCB, TPH, PAH and RCRA Characteristics.

ENSR Sample ID HPSA#4S-01 was sampled on 21 May 2003 and covered soils excavated from approximately 19+30 to 23+55. This pile was sampled by obtaining 3 samples with 15 aliquots each using the same method as sampling for HPSA#1-01. Analyses performed by ENSR included Full TCLP, PCB, TPH, PAH and RCRA Characteristics.

ENSR Sample ID SA#4 Special was sampled on 23 June 2003 and covered soils excavated from the footage from approximately 08+00 to 11+80. This pile was sampled by obtaining one sample with 15 aliquots each using the same method as sampling for HPSA#1-01. Analyses performed by ENSR included Full TCLP, PCB, TPH, PAH and RCRA Characteristics.

ENSR Sample ID RR1100 was sampled on 23 June 2003 and collected directly from the west trench wall at approximately 11+60. Analyses performed by ENSR included Full TCLP, PCB, TPH, PAH and RCRA Characteristics.

ENSR Sample ID EDC71603 was sampled on 16 July 2003 and encompasses material within Site E OU 2. Analyses performed by ENSR included Full TCLP, PCB, TPH, PAH, RCRA Characteristics and BTEX.

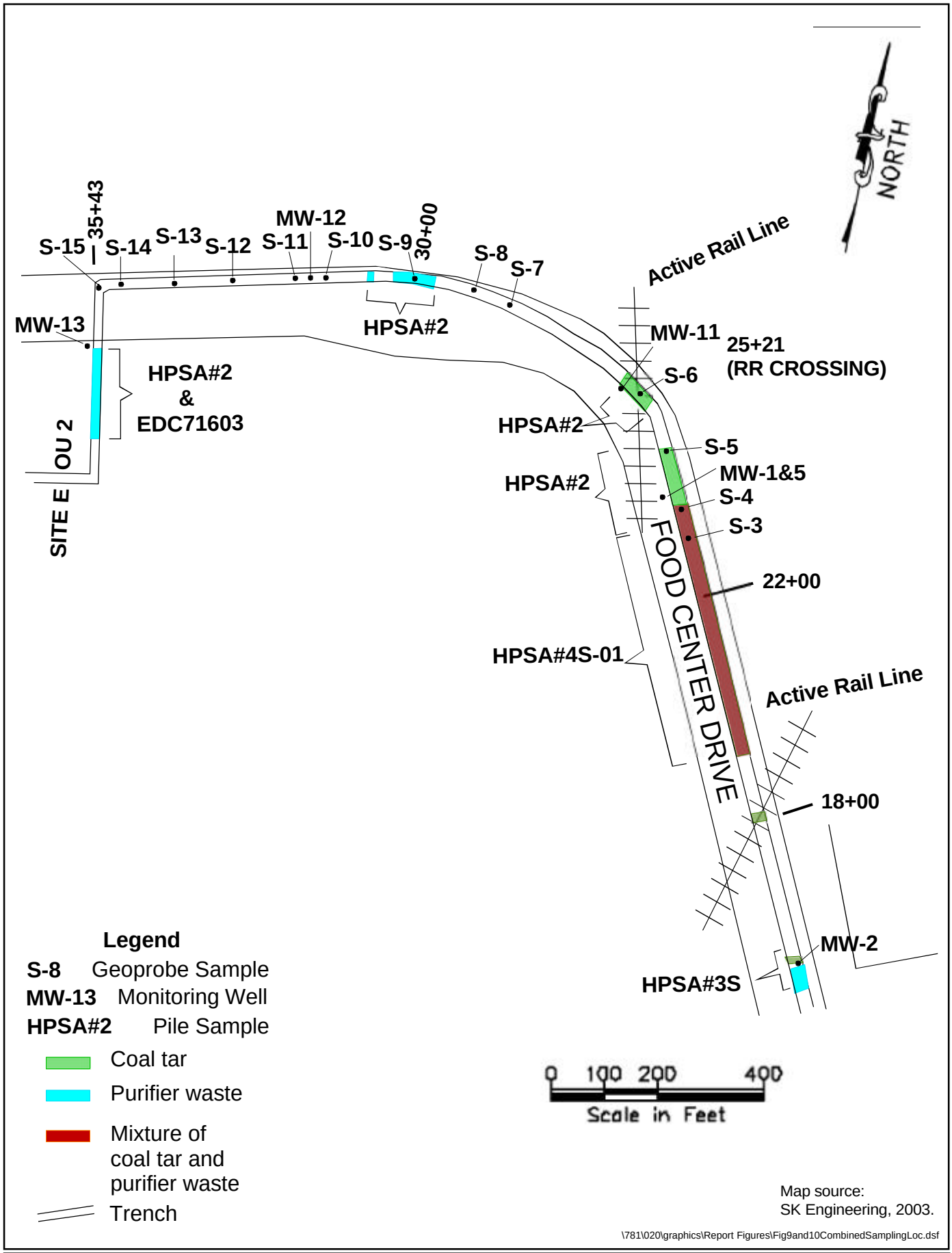
Contaminated Areas

The excavation cross-section displays the depth, area where varying types of fill material were encountered, and the location of the combined sampling points along the pipeline path including geoprobe, monitoring well, and soil pile sampling (Figure 8). A map view of the cross-section and sampling points is shown in Figures 9 and 10. The following section will further describe each area encountered and includes a representative sample number for the pile sampled by ENSR. The ENSR pile sample results which were provided to LMS in the field are provided in Attachment F. The sample results for pile sampling and preconstruction monitoring well sampling are also summarized in Tables 1, 2 and 3.

Three types of suspect material were recognized during the excavation activities. The categories were assigned to the material based on physical description alone:

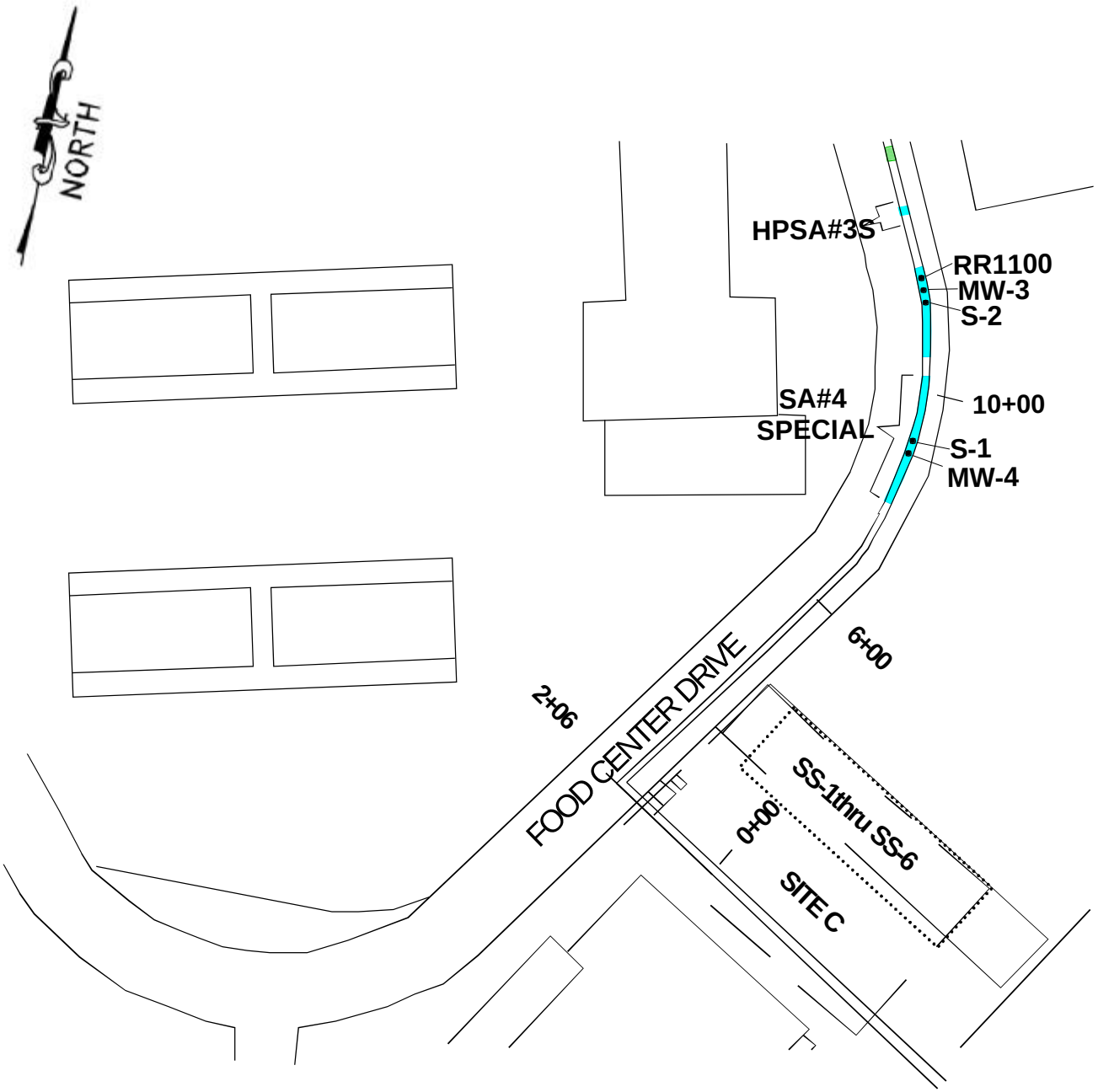
1. Coal Tar

2. Purifier Waste



\781\020\graphics\Report Figures\Fig9and10CombinedSamplingLoc.dsf

LMS Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**ENSR Combined Sampling Locations in Trench Excavation Path (North End)** **HUNTS POINT**	**Figure 9**



Legend

SS-1 Shallow Geoprobe Sample
S-8 Geoprobe Sample
MW-13 Monitoring Well
HPSA#2 Pile Sample

Coal tar

Purifier waste

Mixture of coal tar and purifier waste

Trench

0 100 200 400
Scale in Feet

Map source:
SK Engineering, 2003.

\781\020\graphics\Report Figures\Fig9and10CombinedSamplingLoc.dsf

Lawler, Matusky & Skelly Engineers LLP One Blue Hill Plaza • Pearl River, New York 10965 ENVIRONMENTAL SCIENCE & ENGINEERING CONSULTANTS	**ENSR Combined Sampling Locations inTrench Excavation Path (South End)** **HUNTS POINT**	**Figure 10**

Table 1 (Page 1 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	231771.01	231771.02	231771.03	232391.01	232391.02	232494.01	232494.02	TCLP Extraction
Sampling Date	4/15/2003	4/15/2003	4/15/2003	5/14/2003	5/14/2003	5/21/2003	5/21/2003	Guidance Value[2]
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	C_w (mg/L)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP VOLATILE ORGANIC COMPOUNDS (mg/L)								
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	0.5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	100
1,4 Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	7.5
1,2 Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.5
1,1 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	0.7
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	200
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	0.7
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	0.2
Benzene	0.003	ND	ND	ND	ND	ND	ND	0.5

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 2 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#4S-01C	HPSA#2-01A	HPSA#2-01B	HPSA#2-01C	SA#4 Special	RR1100	EDC71603	
Lab Sample Number	232494.03	232892.01	232892.02	232892.03	233095.01	233095.02	233522.00	TCLP Extraction
Sampling Date	5/21/2003	6/11/2003	6/11/2003	6/11/2003	6/23/2003	6/23/2003	7/16/2003	Guidance Value[2]
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	C_w (mg/L)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP VOLATILE ORGANIC COMPOUNDS (mg/L)								
Carbon Tetrachloride	ND	ND	ND	ND	ND	ND	ND	0.5
Chlorobenzene	ND	ND	ND	ND	ND	ND	ND	100
1,4 Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	7.5
1,2 Dichloroethane	ND	ND	ND	ND	ND	ND	ND	0.5
1,1 Dichloroethene	ND	ND	ND	ND	ND	ND	ND	0.7
Methyl Ethyl Ketone	ND	ND	ND	ND	ND	ND	ND	200
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	0.7
Trichloroethylene	ND	ND	ND	ND	ND	ND	ND	0.5
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	0.2
Benzene	ND	ND	ND	ND	ND	ND	ND	0.5

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 3 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	231771.01	231771.02	231771.03	232391.01	232391.02	232494.01	232494.02	TCLP Extraction
Sampling Date	4/15/2003	4/15/2003	4/15/2003	5/14/2003	5/14/2003	5/21/2003	5/21/2003	Guidance Value[2]
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	C_w (mg/L)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP SEMIVOLATILE ORGANIC COMPOUNDS (mg/L)								
2-Methylphenol (o-cresol)	ND	ND	ND	0.016	0.011	ND	ND	200
3-Methylphenol (m-cresol)	ND	ND	ND	0.034	0.011	ND	ND	200
4-Methylphenol (p-cresol)	ND	ND	ND	0.034	0.011	ND	ND	200
Pentachlorophenol (ms)	ND	ND	ND	ND	ND	ND	ND	100
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	400
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	0.13
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	0.13
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	0.5
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	3
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	2
Pyridine	ND	ND	ND	0.013	0.018	ND	ND	5

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 4 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number Lab Sample Number Sampling Date Matrix Units	HPSA#4S-01C 232494.03 5/21/2003 Extract mg/L	HPSA#2-01A 232892.01 6/11/2003 Extract mg/L	HPSA#2-01B 232892.02 6/11/2003 Extract mg/L	HPSA#2-01C 232892.03 6/11/2003 Extract mg/L	SA#4 Special 233095.01 6/23/2003 Extract mg/L	RR1100 233095.02 6/23/2003 Extract mg/L	EDC71603 233522.00 7/16/2003 Extract mg/L	TCLP Extraction Guidance Value[(2)] C_w (mg/L)
TCLP SEMIVOLATILE ORGANIC COMPOUNDS (mg/L)								
2-Methylphenol (o-cresol)	ND	ND	ND	ND	ND	ND	ND	200
3-Methylphenol (m-cresol)	ND	ND	ND	ND	ND	ND	ND	200
4-Methylphenol (p-cresol)	ND	ND	ND	ND	ND	ND	ND	200
Pentachlorophenol (ms)	ND	ND	ND	ND	ND	ND	ND	100
2,4,5-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	400
2,4,6-Trichlorophenol	ND	ND	ND	ND	ND	ND	ND	2
2,4-Dinitrotoluene	ND	ND	ND	ND	ND	ND	ND	0.13
Hexachlorobenzene	ND	ND	ND	ND	ND	ND	ND	0.13
Hexachlorobutadiene	ND	ND	ND	ND	ND	ND	ND	0.5
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	3
Nitrobenzene	ND	ND	ND	ND	ND	ND	ND	2
Pyridine	ND	ND	ND	ND	0.14	0.041	ND	5

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 5 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	**231771.01**	**231771.02**	**231771.03**	**232391.01**	**232391.02**	**232494.01**	**232494.02**	**TCLP Extraction**
Sampling Date	**4/15/2003**	**4/15/2003**	**4/15/2003**	**5/14/2003**	**5/14/2003**	**5/21/2003**	**5/21/2003**	**Guidance Value[2]**
Matrix	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**C_w (mg/L)**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	
TCLP PESTICIDE (mg/L)								
Lindane	ND	ND	ND	ND	ND	ND	ND	0.4
Endrin	ND	ND	ND	ND	ND	ND	ND	0.02
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	ND	ND	ND	0.5
Chlordane	ND	ND	ND	ND	ND	ND	ND	0.03
Heptachlor	ND	ND	ND	ND	ND	ND	ND	0.008
Heptachlor Epoxide	ND	ND	ND	ND	ND	ND	ND	0.008

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 6 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#4S-01C	HPSA#2-01A	HPSA#2-01B	HPSA#2-01C	SA#4 Special	RR1100	EDC71603	
Lab Sample Number	232494.03	232892.01	232892.02	232892.03	233095.01	233095.02	233522.00	TCLP Extraction
Sampling Date	5/21/2003	6/11/2003	6/11/2003	6/11/2003	6/23/2003	6/23/2003	7/16/2003	Guidance Value[(2)]
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	C_w (mg/L)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP PESTICIDE (mg/L)								
Lindane	ND	ND	ND	ND	ND	ND	ND	0.4
Endrin	ND	ND	ND	ND	ND	ND	ND	0.02
Methoxychlor	ND	ND	ND	ND	ND	ND	ND	10
Toxaphene	ND	ND	ND	ND	ND	ND	ND	0.5
Chlordane	ND	ND	ND	ND	ND	ND	ND	0.03
Heptachlor	ND	ND	ND	ND	ND	ND	ND	0.008
Heptachlor Epoxide	ND	ND	ND	ND	ND	ND	ND	0.008

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 7 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	**231771.01**	**231771.02**	**231771.03**	**232391.01**	**232391.02**	**232494.01**	**232494.02**	**TCLP Extraction**
Sampling Date	**4/15/2003**	**4/15/2003**	**4/15/2003**	**5/14/2003**	**5/14/2003**	**5/21/2003**	**5/21/2003**	**Guidance Value[2]**
Matrix	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**Extract**	**C_w (mg/L)**
Units	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	
TCLP HERBICIDES (mg/L)								
2,4-D	ND	ND	ND	ND	ND	ND	ND	10
2,4,5-TP	ND	ND	ND	ND	ND	ND	ND	1

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 8 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number Lab Sample Number Sampling Date Matrix Units	HPSA#4S-01C 232494.03 5/21/2003 Extract mg/L	HPSA#2-01A 232892.01 6/11/2003 Extract mg/L	HPSA#2-01B 232892.02 6/11/2003 Extract mg/L	HPSA#2-01C 232892.03 6/11/2003 Extract mg/L	SA#4 Special 233095.01 6/23/2003 Extract mg/L	RR1100 233095.02 6/23/2003 Extract mg/L	EDC71603 233522.00 7/16/2003 Extract mg/L	TCLP Extraction Guidance Value[(2)] C_w (mg/L)
TCLP HERBICIDES (mg/L)								
2,4-D	ND	ND	ND	ND	ND	ND	ND	10
2,4,5-TP	ND	ND	ND	ND	ND	ND	ND	1

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 9 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April-July 2003)

ENSR Sample Number	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	231771.01	231771.02	231771.03	232391.01	232391.02	232494.01	232494.02	TCLP Extraction
Sampling Date	4/15/2003	4/15/2003	4/15/2003	5/14/2003	5/14/2003	5/21/2003	5/21/2003	Guidance Value[2]
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	C_w (mg/L)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP METALS (mg/L)								
Arsenic	ND	ND	ND	ND	ND	ND	ND	5.0
Barium	0.35	0.62	0.53	0.33	0.31	0.29	0.18	100
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.0
Chromium	ND	ND	ND	ND	ND	ND	ND	5.0
Lead	0.44	0.15	0.37	0.061	0.086	0.66	0.46	5.0
Mercury	ND	ND	ND	ND	ND	ND	ND	0.2
Selenium	ND	ND	ND	ND	ND	ND	ND	1.0
Silver	ND	ND	ND	ND	ND	ND	ND	5.0

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 1 (Page 10 of 10)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April-July 2003)

ENSR Sample Number	HPSA#4S-01C	HPSA#2-01A	HPSA#2-01B	HPSA#2-01C	SA#4 Special	RR1100	EDC71603	TCLP Extraction
Lab Sample Number	232494.03	232892.01	232892.02	232892.03	233095.01	233095.02	233522.00	Guidance Value[2]
Sampling Date	5/21/2003	6/11/2003	6/11/2003	6/11/2003	6/23/2003	6/23/2003	7/16/2003	C_w (mg/L)
Matrix	Extract	Extract	Extract	Extract	Extract	Extract	Extract	
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
TCLP METALS (mg/L)								
Arsenic	ND	0.052	0.14	ND	ND	ND	0.32	5.0
Barium	0.36	0.25	0.2	0.25	ND	0.14	0.37	100
Cadmium	ND	ND	ND	ND	ND	ND	ND	1.0
Chromium	ND	ND	ND	ND	0.36	ND	ND	5.0
Lead	1.2	1.3	0.28	0.45	ND	ND	ND	5.0
Mercury	ND	ND	ND	ND	ND	ND	ND	0.2
Selenium	ND	ND	ND	ND	ND	ND	ND	1.0
Silver	ND	ND	ND	ND	ND	ND	ND	5.0

ND - Not detected at analytical detection limit.

(2) - The TCLP Extraction Guidance Values are equal to the NYSDEC groundwater quality standards or Guidance Values, or the NYSDOH drinking water quality standards or Guidance Values, whichever is more stringent.

Table 2 (Page 1 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April - July 2003)

LMS Sample ID	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	
Lab Sample Number	231771.01	231771.02	231771.03	RECOMMENDED
Sampling Date	37726	37726	37726	SOIL CLEANUP
Matrix	SOIL	SOIL	SOIL	OBJECTIVE (a)
Units	mg/kg	mg/kg	mg/kg	mg/kg
VOLATILE ORGANIC COMPOUNDS (mg/kg)				
Vinyl Chloride	ND	ND	ND	0.2
Chloroethane	ND	ND	ND	1.9
1,1 Dichloroethene	ND	ND	ND	0.4
Methylene Chloride	ND	ND	ND	0.1
t-1,2-Dichloroethene	ND	ND	ND	0.3
1,1 Dichloroethane	ND	ND	ND	0.2
Chloroform	ND	ND	ND	0.3
111 Trichloroethane	ND	ND	ND	0.8
Carbon Tetrachloride	ND	ND	ND	0.6
Benzene	0.22	0.33	ND	0.06
1,2 Dichloroethane	ND	ND	ND	0.1
Trichloroethylene	ND	ND	ND	0.7
Toluene	0.31	0.28	ND	1.5
Tetrachloroethene	ND	ND	ND	1.4
1,3-Dichloropropane	ND	ND	ND	0.3
Chlorobenzene	ND	ND	ND	1.7
Ethyl Benzene	0.26	ND	0.19	5.5
m + p Xylene	0.82	0.74	0.37	1.2**
o Xylene	0.26	0.45	0.48	1.2**
Styrene	ND	ND	ND	1
Bromoform	ND	ND	ND	1
1122Tetrachloroethane	ND	ND	ND	0.6
123-Trichloropropane	ND	ND	ND	0.4
1,3 Dichlorobenzene	ND	ND	ND	1.6
1,4 Dichlorobenzene	ND	ND	ND	8.5
1,2 Dichlorobenzene	ND	ND	ND	7.9
124-Trichlorobenzene	ND	ND	ND	3.4
Naphthalene	53	68	19	13
Freon 113	ND	ND	ND	6.0
Acetone	ND	ND	ND	0.2

1 - As per TAGM #4046, total VOCs < 10 ppm, total SVOCs < 500 ppm, total pesticides < 10 ppm.

(a) - NYSDEC Technical Administrative Guidance Memorandum, January 1994.

ND - Not detected at analytical detection limit

** - Value is for total Xylenes

Table 2 (Page 2 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April- July 2003)

ENSR Sample Number Lab Sample Number Sampling Date Matrix Units	HPSA#2-01A 232892.01 6/11/2003 SOIL mg/kg	HPSA#2-01B 232892.02 6/11/2003 SOIL mg/kg	HPSA#2-01C 232892.03 6/11/2003 SOIL mg/kg	EDC71603 233522.00 7/16/2003 SOIL mg/kg	RECOMMENDED SOIL CLEANUP OBJECTIVE (a) mg/kg
VOLATILE ORGANIC COMPOUNDS (mg/kg)					
Benzene	0.020	0.030	0.027	ND	0.06
Toluene	0.029	0.049	0.049	ND	1.5
Ethyl Benzene	ND	0.040	0.024	ND	5.5
m + p Xylene	0.092	0.150	0.150	ND	1.2**
o Xylene	0.220	0.260	0.270	ND	1.2**
Petoleum Hydrocarbons	900	730	950	330	

ND - Not detected at analytical detection limit.

Table 2 (Page 3 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April - July 2003)

LMS Sample ID	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	
Lab Sample Number	231771.01	231771.02	231771.03	232391.01	232391.02	232494.01	232494.02	RECOMMENDED
Sampling Date	4/15/2003	4/15/2003	4/15/2003	5/14/2003	5/14/2003	5/21/2003	5/21/2003	SOIL CLEANUP
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	OBJECTIVE (a)
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)								
Naphthalene	18	20	11	5.1	49	11	8.8	13
2-Methylnaphthalene	7.1	6.6	3.7	ND	18	4.2	3.1	36.4
Acenaphthylene	9.3	8.3	4.7	ND	21	4.2	4	41
Acenaphthene	1.8	16	3.2	ND	8.9	7.4	5.7	50
Fluorene	17	30	10	10	39	20	17	50
Phenanthrene	62	110	32	36	100	71	64	50
Anthracene	13	25	8.4	11	36	25	21	50
Fluoranthene	46	72	21	31	85	64	59	50
Pyrene	45	66	23	22	57	53	51	50
Benzo(a)anthracene	19	31	10	10	28	22	22	0.224 or MDL
Chrysene	17	26	9.4	9.5	25	21	21	0.4
Benzo(b)fluoranthene	15	19	7.2	6.9	18	15	14	1.1
Benzo(k)fluoranthene	15	19	7.2	6.9	10	15	14	1.1
Benzo(a)pyrene	18	22	8.2	7.9	22	19	20	0.061 or MDL
Indeno(1,2,3-cd)pyrene	7.3	9.9	3	4	9	7.6	7.7	3.2
Dibenzo(a,h)anthracene	3.4	4.9	1.7	ND	ND	2.6	2.3	0.0143 or MDL
Benzo(ghi)perylene	6.5	9.7	2.7	4.8	9	8.1	8.5	50

ND - Not detected at analytical detection limi
1 - As per TAGM #4046, total VOCs < 10 ppm, total SVOCs < 500 ppm, total pesticides < 10 ppm.
(a) - NYSDEC Technical Administrative Guidance Memorandum, January 1994
MDL - Method detection limit.

Table 2 (Page 4 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April - July 2003)

LMS Sample ID	HPSA#4S-01C	HPSA#2-01A	HPSA#2-01B	HPSA#2-01C	SA#4 Special	RR1100	EDC71603	RECOMMENDED
Lab Sample Number	232494.03	232892.01	232892.02	232892.03	233095.01	233095.02	233522.00	SOIL CLEANUP
Sampling Date	5/21/2003	6/11/2003	6/11/2003	6/11/2003	6/23/2003	6/23/2003	7/16/2003	OBJECTIVE (a)
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SEMIVOLATILE ORGANIC COMPOUNDS (mg/kg)								
Naphthalene	11	16	13	94	0.74	0.71	7.1	13
2-Methylnaphthalene	4.6	62	60	240	0.96	ND	1.5	36.4
Acenaphthylene	4.4	6	4.4	14	0.89	1.5	4.8	41
Acenaphthene	6.9	6.2	5.9	15	ND	ND	2.5	50
Fluorene	19	22	20	49	3.2	4.1	5.2	50
Phenanthrene	62	120	120	330	14	13	23	50
Anthracene	20	11	9.7	31	3.8	3.6	6.7	50
Fluoranthene	55	59	56	130	6.5	3.6	27	50
Pyrene	45	71	67	160	6.5	3.2	34	50
Benzo(a)anthracene	20	24	23	59	3.5	1.9	16	0.224 or MDL
Chrysene	19	25	24	65	3.2	1.8	15	0.4
Benzo(b)fluoranthene	14	17	16	52	2.2	1.4	15	1.1
Benzo(k)fluoranthene	14	17	16	52	2.2	1.4	15	1.1
Benzo(a)pyrene	18	18	17	45	2.5	1.6	19	0.061 or MDL
Indeno(1,2,3-cd)pyrene	7	8.9	7.9	16	1.1	0.64	6.7	3.2
Dibenzo(a,h)anthracene	2.2	ND	ND	5.8	0.49	ND	3.4	0.0143 or MDL
Benzo(ghi)perylene	7.9	9.2	8.3	15	1.1	0.6	6.8	50

ND - Not detected at analytical detection limi
1 - As per TAGM #4046, total VOCs < 10 ppm, total SVOCs < 500 ppm, total pesticides < 10 ppm.
(a) - NYSDEC Technical Administrative Guidance Memorandum, January 1994
MDL - Method detection limit.

Table 2 (Page 5 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April - July 2003)

LMS Sample ID	HPSA#1-01A	HPSA#1-01B	HPSA#1-01C	HPSA#3S-01A	HPSA#3S-01B	HPSA#4S-01A	HPSA#4S-01B	RECOMMENDED
Lab Sample Number	231771.01	231771.02	231771.03	232391.01	232391.02	232494.01	232494.02	SOIL CLEANUP
Sampling Date	4/15/2003	4/15/2003	4/15/2003	5/14/2003	5/14/2003	5/21/2003	5/21/2003	OBJECTIVE (a)
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs								
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1260	ND	ND	0.053	ND	ND	0.099	0.22	1.0/10*

* - Suface/Sub-surface
(a) - NYSDEC Technical Administrative Guidance Memorandum, January 199
ND - Not detected at analytical detection limit.

Table 2 (Page 6 of 6)
SOIL DATA SUMMARY
NYCEDC Iroquois Pipeline
Pile Samples
(April - July 2003)

LMS Sample ID	HPSA#4S-01C	HPSA#2-01A	HPSA#2-01B	HPSA#2-01C	SA#4 Special	RR1100	EDC71603	RECOMMENDED
Lab Sample Number	232494.03	232892.01	232892.02	232892.03	233095.01	233095.02	233522.00	SOIL CLEANUP
Sampling Date	5/21/2003	6/11/2003	6/11/2003	6/11/2003	6/23/2003	6/23/2003	7/16/2003	OBJECTIVE (a)
Matrix	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
PCBs								
Aroclor-1016	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1221	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1232	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1242	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1248	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1254	ND	ND	ND	ND	ND	ND	ND	1.0/10*
Aroclor-1260	0.19	ND	ND	ND	ND	ND	ND	1.0/10*

* - Suface/Sub-surface
(a) - NYSDEC Technical Administrative Guidance Memorandum, January 199
ND - Not detected at analytical detection limit.

Table 3 (Page 1 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
BTEX (µg/l)									
Benzene	5800	4.3	610	ND	5800	7.8	ND	ND	1
Toluene	710	ND	280	ND	1500	2.6	ND	ND	5
Ethyl Benzene	490	ND	100	ND	1700	4.7	ND	ND	5
Xylenes (Total)	810	ND	600	ND	1660	14	ND	ND	5

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 2 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
SEMIVOLATILE ORGANIC COMPOUNDS (µg/l)									
Naphthalene	6800	ND	1400	ND	5900	180	3.7	ND	10

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 3 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
PCBs (µg/l)									
PCBs (Total)	ND	ND	ND	ND	ND	ND	ND	ND	0.09

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

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Table 3 (Page 4 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
VOLATILE ORGANIC COMPOUNDS (µg/l)									
Tetracloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	5

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 5 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
METALS (µg/l)									
Cadmium	ND	66	2.2	ND	6	ND	2.3	ND	5
Chromium (VI)	R	R	R	R	R	R	NA	R	50
Copper	ND	ND	ND	ND	ND	59	180	ND	200
Lead	5.3	ND	6.3	11	11	30	330	7.3	25
Mercury	ND	ND	ND	ND	ND	ND	0.29	ND	0.7
Nickel	ND	ND	ND	ND	ND	36	110	ND	100
Zinc	ND	120	29	ND	62	74	520	ND	2000

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 1 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
BTEX (µg/l)									
Benzene	5800	4.3	610	ND	5800	7.8	ND	ND	1
Toluene	710	ND	280	ND	1500	2.6	ND	ND	5
Ethyl Benzene	490	ND	100	ND	1700	4.7	ND	ND	5
Xylenes (Total)	810	ND	600	ND	1660	14	ND	ND	5

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 2 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
SEMIVOLATILE ORGANIC COMPOUNDS (µg/l)									
Naphthalene	6800	ND	1400	ND	5900	180	3.7	ND	10

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 3 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
PCBs (µg/l)									
PCBs (Total)	ND	ND	ND	ND	ND	ND	ND	ND	0.09

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 4 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
VOLATILE ORGANIC COMPOUNDS (µg/l)									
Tetracloroethylene	ND	ND	ND	ND	ND	ND	ND	ND	5

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

Table 3 (Page 5 of 5)
GROUNDWATER DATA
NYCEDC Iroquois Pipeline
Preconstruction Sampling
(October 2002)

ENSR Sample Number Sampling Date Units	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2003 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l	MW-13 10/1/2002 µg/l	NYSDEC CLASS GA STANDARDS (b)
METALS (µg/l)									
Cadmium	ND	66	2.2	ND	6	ND	2.3	ND	5
Chromium (VI)	R	R	R	R	R	R	NA	R	50
Copper	ND	ND	ND	ND	ND	59	180	ND	200
Lead	5.3	ND	6.3	11	11	30	330	7.3	25
Mercury	ND	ND	ND	ND	ND	ND	0.29	ND	0.7
Nickel	ND	ND	ND	ND	ND	36	110	ND	100
Zinc	ND	120	29	ND	62	74	520	ND	2000

ND - Not detected at analytical detection limit

(a) - NYSDEC June 1998 Ambient Water Quality Standards and Guidance Values for Groundwater Class GA.

R - Rejected during data validation

3. Mixture of Coal Tar and Purifier Waste

Coal Tar

There was no area along the pipeline path where the coal tar extended past the bottom of the trench. All measurements are in feet and are taken from the ninety degree turn of the pipeline as it exits Site C and starts following the east lane heading north on FCD at footage mark 2+06.

- 13+75 to 13+96

  Soils identified had a strong petroleum odor, contained coal tar pieces, ash and clay and were generally black in color. The length of the area was approximately 21 ft long, 1 foot bgs, approximately 1 to 2 ft thick, and extending into both walls of the trench. Depth to water table in this area was approximately 6 ft bgs.

- 14+36 to 14+52

  A thin and soft area of coal tar approximately 16 ft long was found running underneath and along the water chute along the east wall of the trench in a large gravel area at approximately 7 ft bgs (approximately 1 ft below the water table in that area). The seam was up to one foot thick in places and was sporadic within the 16 ft zone. A small amount of coal tar was noted seeping into the trench from a very isolated area directly under the water chute (approximately several inches wide). Coal tar did not extend below the bottom of the trench and was only found on the eastern wall. The west wall contained ash and no visible coal tar. The water level in the area was approximately 6 ft bgs.

- 15+62 to 15+82

  An area with large amounts of ash containing some sporadic coal tar and fibrous wood fluctuated between 4.5 and 6.5 ft bgs but was not found below the bottom of the trench. The material extended into both walls and below the water table which was found at approximately 6 ft bgs.

  This suspect material was removed and stored in the pile represented by sample HPSA#3S. Pile sample results reflect elevated levels of semi-volatile organic compounds (SVOCs).

- 15+82 to 15+89

  A very isolated area of coal tar was encountered within the trench itself between 5 to 6 ft bgs. This area did not extend beyond the actual trench excavation and was completely removed. This suspect material was placed

and sampled from pile HPSA3#S. Pile sample results reflect elevated levels of SVOCs.

- 17+95 to 18+03

  Another isolated area of coal tar was encountered within the trench itself between 3 and 4 ft bgs. This area did not extend beyond the actual trench excavation and was completely removed.

- 23+55 to 24+52

  Fill with coal tar throughout, ash, cinder, very strong petroleum odor extended from 1 ft to 9 ft bgs. Brown clay was encountered at 9 ft bgs. From 23+20 to 23+58 there was a 12 in. thick seam of coal tar found at 4 ft bgs which extended into both walls. At 23+98, a coal tar boil that measured 8 ft long and approximately 4 ft thick was encountered on the west wall. Groundwater was measured on top of the clay in this area approximately 7 ft bgs.

  All of this suspect material was placed in a single pile and was represented by sample HPSA#2. Soil sample S-5 and monitoring well samples MW-1 and MW-5 were also taken from this vicinity. Pile samples reflect an elevated level of SVOCs while soil sample results reflect elevated levels of VOCs, SVOCs, and metals. Water sample results reflect elevated levels in VOCs and the SVOC naphthalene.

- 25+28 to 26+10

  Fill encountered containing mixed coal tar blocks that extends on both sides of the trench beginning at a shallow depth of 1 ft bgs and extending from 5 to 8 ft bgs. Brown clay was encountered immediately beneath the fill (5 to 8 ft bgs). The water level was encountered generally right on top of the clay but the static surface was measured at approximately 7ft bgs.

  This suspect material was removed and stockpiled in pile HPSA#2. Soil sample S-6 and monitoring well sample MW-11 were also collected from this vicinity as representative of this area. Pile samples typically reflected elevated SVOCs while the shallow soil sample results contained elevated VOCs and metals, in addition to SVOCs. The water sample results from MW-11 contained levels of VOCs that were just above the drinking water standard and naphthalene that detected at an elevated concentration of 18µg/l.

- 37+80

A very small area of coal tar was visible in the east wall of the trench after the trench box was removed, however during the actual trench excavation, no coal tar was noted.

Purifier Waste

The largest area of purifier was encountered at the southern end of FCD from approximately 8+00 to 12+00. The layer ranged from 5 to 12 ft in thickness. These areas are measured in feet from the ninety degree elbow of the pipeline with a footage mark of 2+06 as it exits Site C and turns onto FCD. Purifier waste material was identified by the physical presence of wood chips which in some instances exhibited a distinct naphthalene odor.

Excavation (moving south towards Site C) in the 12+00 area started in early May 2003 but had to be halted due to the high volume of water that was continually flowing into the trench from what was believed to be a leaking potable source. Steel plates were placed over the 80 feet of open trench until the water problem could be addressed. In late June 2003, excavation resumed when the contractor deepened the open trench from 11+80 to 11+60. Very strong naphthalene odors filled the workspace. While excavating, Miller Environmental took a Drager tube sample for hydrogen cyanide levels which reached 4 ppm. The level of hydrogen cyanide was monitored in addition to the initiation of engineering controls for removal of vapors (blower system for positive pressure venting of the workspace). On specific occasions when conditions warranted, workers used Level B respiratory protection to perform work in the trench. There was one area of mixed material where it was difficult to determine which of the two types of material, purifier or coal tar wastes, was the major component of the fill. This material is noted on Figure 9 as a mixture of both purifier and coal tar wastes.

- 8+67 to 10+26

  Soils consisted of black ash containing wood chips, metal, rock, tire pieces, brick, and other debris with a naphthalene type odor which extended from 1 ft bgs to 10.5 ft bgs (deepened towards the south) and into both walls of the trench. The waste was mixed in with other material and was not noted as an individual layer. Water level in this area was approximately 6 ft bgs. This was the only area (approximately 9+00 to 12+20) within the project where waste material extended to a depth that was beneath the excavation. Figure 8 shows that there was a significant over excavation performed in order to reach the bottom, however the depth of groundwater prevented further removal of material.

  Material removed from this area was considered suspect and was taken to pile SA#4. Soil sample S-1 and monitoring well sample MW-4 were also collected from this vicinity. Pile samples and soil samples both reflect elevated levels of SVOCs and metals. The groundwater in MW-4 had a measured pH of 4.

- 10+55 to 12+20

  Purifier type material extended into the east and west walls of the trench starting approximately at 1 ft bgs and extending to a depth beyond the bottom of the trench excavation (12ft). As the excavation was deepened, a high volume of water was noted entering from the sidewalls, this flow of water caused slumping of material that made deepening the excavation extremely difficult. The water level in this general area was as high as 3.5 ft bgs.

  This material was categorized as suspect and was taken to SA#4. Soil sample S-2 and monitoring well sample MW-3 were also collected from this vicinity. Pile samples in this area contained somewhat elevated SVOCs and metals. Monitoring well data reflect elevated BTEX levels and a pH of 4.

- 12+96 to 13+08

  A relatively small pocket of material that contained black ash mixed with purifier material that began at 1 to 3 feet bgs and thinned out in a southerly direction. Soil changed at 3 ft bgs to tan/orange sandy clay and groundwater in this area is present at approximately 5 to 6 ft bgs. This material was characterized as suspect and was placed in pile HPSA#3S. Sample results indicated elevated SVOC levels were present.

- 13+15 to 13+43

  Black wood chips were encountered in this small area from 2-4 ft bgs. When allowed to air dry, the material color changed to a more definite blue-green. This suspect material was stockpiled and sampled from pile HPSA#3S. Results from this pile indicated elevated SVOCs were present.

- 14+62 to 15+62

  Soil contained black ash with purifier waste and extended into both walls of the trench. Waste and ash varied in thickness over the length of the trench but was present at 1 ft bgs and remained between 2 and 5 ft thick. In this area purifier waste did not extend beyond the trench bottom. Groundwater was encountered at approximately 6 ft bgs. This material was taken to pile HPSA#3S. Monitoring well sample MW-2 was also collected from this vicinity. Pile samples in this area indicated elevated levels of SVOCs.

- 19+30 to 23+55

  Fill material contained ash, brick, concrete, dark brown sand/clay with coal tar seams and pieces of coal tar along with wood chips. A petroleum odor was present throughout the fill. This layer was noted at 1 ft bgs and extended to a depth of 6 ft. Groundwater was encountered at approximately 7 feet bgs.

This suspect material was taken to pile HPSA#4S-01. Soil samples S-3 and S-4 were taken from this vicinity. Pile samples in this area contained elevated concentrations of SVOCs.

- 29+57 to 30+20

  Brown wood chips with a distinct naphthalene type odor were encountered between 3 ft and 7 ft bgs and the material was noted to extend into both walls of the trench.

  This material was taken to suspect pile HPSA#2. Samples from this pile contained elevated concentrations of SVOCs and metals.

- 35+89 to 37+79

  Dark brown sands with purifier waste material were found between 3 to 5 ft bgs.

Trench Dewatering

On 7 March 2003 Hallen started laying a 6" high density polyethylene (HDPE) pipe parallel to the trench along the curb line to be used as a header to pump all trench water to the staging area at Site C. The water was pumped from the trench with a portable pump and placed into one of eight stabilization frac tanks before entering the water treatment system. The water treatment system consisted of several sock filters, an oil/water separator and a carbon filter tank. After water ran through the treatment system, it was pumped to another frac tank on Site where it was gravity fed to the sanitary sewer drain on FCD. Before the treatment system was put online, water from MW-4 was pumped and then run through the treatment system in order to determine its effectiveness. Samples of the treated water were collected and analyzed to provide documentation of discharge parameters. Sample results were sent to the NYSDEC for approval to proceed with long term discharge to the sanitary sewer.

According to their discharge permit, the maximum that ENSR was allowed to discharge to the sanitary sewer was 70,000 gallons/8hr or 120,000 gallons/24hr day. The reported typical rate of water treatment was 150 gallons/minute. On 14 May 2003, a second water treatment system was delivered to Site C but the system was not needed as thought and was never utilized. According to ENSR, the amount of water treated from the pipeline project totaled 5,392,000 gallons and water treated from the M&R station portion of the project totaled 1,300,500 gallons.

POST CONSTRUCTION FIELD ACTIVITES

The depth of the pipeline can be viewed on the cross section (Figure 8). The pipeline was supported by a 6" layer of sand that originated from a virgin source area free of fill, debris and contamination from a known, man-made source. Flowable fill that consisted of a lighter duty concrete mixture was poured on top of and around the pipeline to provide a stable and protective barrier for the entire system. This was poured in the excavation up to a level of approximately 8" above the top of the actual pipe. In areas where it was necessary to use more than 4 ft of additional cover above the pipeline, additional flowable fill was placed in the excavation and it was brought up to an elevation that would be approximately 3.33 ft below the finished grade. The flowable fill was allowed to set and then protective concrete slabs that were identifiable with a yellow warning color were placed in the excavation. Other warning and protective systems were also placed in the excavation to help prevent anyone from inadvertently damaging the pipeline and to protect the pipeline itself from corrosion, these included; warning tape, a flexible sacrificial anode, four fiber optic cables that were each connected to an operating warning system, and street markers set above ground. A layer of select fill was then placed and compacted followed by the final asphalt pavement layer.

The cross section (Figure 8) shows that in basically all areas of the pipeline excavation with the exception of one area (15+82 to 15+89), the sand backfill material was placed below the water table and the flowable fill would actually straddle the groundwater table to act as an impermeable barrier preventing the downward movement of any LNAPL.

CONCLUSIONS AND RECOMMENDATIONS

Approximately 17,500 tons of soil were excavated and thermally treated as a result of this project and in addition, approximately 6.7 million gallons of groundwater were treated and discharged to the sanitary sewer system. Soil and groundwater analyses showed that none of the material that was removed and treated was classified as hazardous waste. The trench created by the pipeline project cut through several areas of relatively shallow apparent MGP waste material. The majority of this material was found above or just into the water table and only in one distinct area was waste found to extend a minimum of several feet into the water table. In most areas the material that was encountered extended into both the eastern and western walls of the excavation. Based on the maximum depths that the waste material was found to extend to (generally 4-6 ft) and the fact that the entire interior portion of FCD contains numerous underground utilities, it is assumed that if waste extended in either direction, it would have been removed when those utilities were installed.

The entire area within the confines of FCD itself is capped with a substantial layer of asphalt roadway designed for extremely heavy traffic use and the roadway has and continues to act as an effective barrier preventing any waste from coming into contact with vehicles, the general population, and the elements including rain and other forms of precipitation.

A concrete median containing trees exists, separating the 6 lanes of FCD. A narrow green space of grass and trees exists along the western edge of FCD within the Hunts Point Cooperative Meat Market. There is currently no green area or median adjacent to the roadway along East Bay Avenue. A comparison of Figure 2 to Aerial Photo 6 shows the relationship of the existing buildings and parking areas to the former MGP facility. The historical aerial photographs and Sanborn maps indicate that much of the area inside the loop of FCD was occupied by the operating MGP Facility. The area currently occupied by FCD and East Bay Avenue did not historically contain any buildings or equipment related to the facility. Based on the results of this investigation and investigations performed in other areas of the former facility within Hunts Point by LMS and others, it appears that handling and or potential filling of areas with waste typical of MGP facilities (coal tar and purifier waste) took place principally on outer parcels (such as Sites A OU-2, B and D) and those areas not containing any buildings or equipment essential to manufacture. Areas inclusive of Sites A OU-1, E and C where actual operations took place were not found to contain typical waste as fill material.

Based on the results of this investigation, excavation and removal of material, the presence of an extensive network of underground utilities in the roadway, and the lack of any distinctive product plume throughout the entire project area, this construction and remedy inclusive of the concrete backfill and new roadway cap should be considered complete and a no further action designation be provided by the Agencies.

Groundwater data from monitoring wells MW-1, 3, and 5 indicate petroleum contamination as present in these locations. Although the fill was removed from the trench excavation, there may be some residual in the adjacent fill material. In order to evaluate this from the perspective of migration, this information will be addressed and accounted for in Investigation Reports for the two sites adjacent to these wells. These sites are identified as Site D and Site F. Both are adjacent to the rail line and immediately east of the wells in question. It is believed that they are in a down gradient location between the Bronx River and these monitoring wells.

Standards, Criteria, and Guidance:

Soil data was compared to the existing NYSDEC Technical and Administrative Guidance Memorandum (TAGM) for the TCLP compounds and although several criteria are several parts per million above the recommended soil cleanup criteria, these compounds are relatively immobile and were believed to have been encountered in general fill material across the Site. Other concentrations are relatively ubiquitous across the entire Hunts Point peninsula and are consistent with fill including timbers and coal waste, a number of these compounds are also typically found in road base materials.

Groundwater standards that are above the criteria are located in shallow fill areas that are not or never will be intended for any use (potable or non-potable). The area

is immediately under the roadway and is choked with underground utilities and has a consistent roadway cap that has very high usage. The gas pipeline and flowable fill that has been placed into the excavation acts as a shallow groundwater barrier (as shown on the cross section by all three monitoring wells. This will reduce further any movement in an area already stagnant.

Overall Protectiveness of Public Health and the Environment:

The current condition of the entire Site allows no infiltration of precipitation through the soil to percolate to the groundwater since the entire surface area is covered with a substantial layer of asphalt. Currently the groundwater is in a condition that exists in a fill layer and due to its proximity to the East and Bronx Rivers may also be considered saline and unusable in any form as a potable water source. The asphalt cap which was reinstalled across the entire construction Site is composed of similar compounds that are found in much of the fill material. All runoff is directed and channeled into storm drains.

The entire content of fill material from within the construction area has been removed and replaced with other approved materials. The remaining portion of the roadway where there are no utilities remains capped with the roadway and is totally isolated from the ground surface. This will continue to prevent future contact with the subsurface by workers or anyone present at or on the Site.

Although the concentrations of contaminant compounds would be considered low level, care should be taken and notice given to any workers during any post-construction activities. It would be during this period that the only real potential for direct exposure would be evident. Prior to initializing construction below grade, the contractor should review the data and incorporate potential exposure routes into a plan that should be presented to workers. A Soil Management Plan (SMP) and Project specific Health & Safety Plan will be prepared and submitted to NYSDEC and NYSDOH for approval prior to the commencement of any construction activities.

Short-term and Long-term Effectiveness:

The construction and use is effective both for the short and long term effectiveness because the capping material that seals the Site is composed of a group of compounds similar and in some cases identical in nature to what is present in the fill material. In addition, there is no suspect fill remaining within the footprint of the project as it was all excavated and replaced with engineered fill. The Site is not being redeveloped but will continue to serve as the main thoroughfare in the Hunts Point Food Distribution Center Cooperative Market area. This use is considered a very long term and there are currently no known plans for changing the use of the Site.

In order to affect the long-term portion of the remedy, the Site will have specific restrictions which require notification of the Owner (City of New York maintenance and construction office) for any intrusive work (utility, drainage or emergency repairs).

The property within the metes and bounds of the perimeter site has a prepared deed restriction that provides instructions and requires specific protections be put in place for any intrusive work that is performed. An additional area identified as the “Meat Market” is located within the loop of Food Center Drive and is also included in this restriction. The Meat Market includes land within the Food Center Drive roadway loop except specific VIP sites or properties identified as: Site A ou-1, Site A ou-2, Viele Avenue, Con Edison compressor station (corner of East Bay Avenue and Halleck Street), Site E ou-1, Site E ou-2, and the Atlantic and Pacific Tea Company.

Any future intrusive work or repair of existing facilities will require the contractor to review and adhere to a health and safety plan and soil management plan that is being submitted as an addendum to this report.

In addition to adherence to the soil management and safety plans, the entire site (perimeter/Iroquois and meat market) will be annually certified that the institutional or engineering controls are still in place and remain effective.

Reduction of Toxicity, Mobility, Volume with Treatment:

The asphalt roadway will serve as a cap and will physically reduce potential for exposure to any residual material including any levels of compounds that are considered toxic. The contaminants found in the soil were primarily semi-volatiles and metals. Since all suspect material was removed for treatment, the actual volume of impacted material that remains in-place is negligible.

The Site Use Plan outlined on Aerial Photo 6 indicates the Site, its limits, and past and current use (main roadway for the Hunts Point Terminal Market area). The presence of this roadway as a single unit across the entire Site has and will continue to act will effectively remove any potential for infiltration in comparison to the existing conditions. The removal of percolating water will render immobile any residual metals and semivolatiles that may remain adjacent to the excavation Site, as these compounds require a source to facilitate their migration. Precipitation will and has always been contained and directed into an engineered storm drainage system, rather than infiltrating through the ground.

The existing use with the roadway capping is an effective remedy for the Site. No additional engineering controls will be recommended within the Site as a result of the total removal of fill material and the lack of either a recoverable plume of NAPL or source of groundwater contamination. Monitoring wells that were removed during the construction were replaced and have been reinspected to find that conditions on the groundwater table are similar if not noticeably improved. Based on this, LMS would recommend that the wells not be closed, as they can be used in the future as water level measurement points and potential up-gradient locations for an adjacent VCP property known as Site D.

A review of the analytical data for soils and fill clearly indicates that even in areas where the fill contains small amounts of residual solidified coal tar, and purifier waste,

no PCBs or pesticides were found that would require further review. Metals concentrations were also consistent with concentrations that may be found in urban fill material.

After a thorough examination, groundwater was found to be free of either a light or dense Non Aqueous Phase Petroleum Layer. Some minor semivolatile contamination was presented in the laboratory data. The data also indicated that the water was rather high in analytes indicative of saline groundwater. Although groundwater fluctuations were not measured, it may be tidally influenced as well.

The Perimeter Site does not contain areas of vegetation (with the exception of several small trees planted in the median within the island traffic divider).

The meat market does have areas along the perimeter that are grass covered and have trees growing in them. There is currently no plan for reconstructing these areas for facilities. They constitute less than 1% of the area of both perimeter site and meat market.

In the event that future work is performed in these areas that require excavation or removal of material, the previously described plans will be used and followed. In the event that backfill material is required, any area that is not covered with solid structures (sidewalks, roadways, parking lots, buildings, or other structures) will have a minimum 1 ft layer of soil placed over a “demarcation” barrier. The soil itself must meet the following criteria: either be from a virgin source of backfill, an example being “bark run” sand, gravel and/or clay or be from some other source of non-regulated material (i.e. recycled C + D from a registered facility) and must meet TAGM 4046 or the approval of NYSDEC.

The future use of the Site will require notification to the Owner for any intrusive repairs or modifications that may result in the contact or disturbance of the material under the cap. Understanding that this area is a roadway and that emergency repairs may need to be performed that would not allow normal notification and review time, NYC is currently developing a plan to address the notification for this and any other work. In any event, a Soil Management Plan (SMP) will be prepared that will address the work that has been performed as an emergency or work that is proposed to be performed. The SMP will describe basic procedures for handling and properly disposing of material and how the engineered cap will be repaired following the completion of the work. The plan will include another document that addresses Health & Safety of workers. These documents will be supplied to NYSDEC and NYSDOH for review. It is understood that upon approval of this document, both Agencies will provide the name and contact information for a person or Department that will be responsible for accepting and reviewing of these documents and in the event that this procedure changes in the future, that NYC will be notified.

This Report is signed and sealed (inside of front cover) by a NYS professional Engineer (Dr. Thomas Pease). The stamp certifies that the IRM was implemented

and that all construction activities were completed substantially in accordance with the Department approved Work Plan, except as noted in this report.

ATTACHMENT A
LMS GEOTECHNICAL SOIL BORING LOGS

LMS Test Boring Log

Boring No.: SW-4

Sheet 1 **of** 2

Project Name: IROQUOIS GAS
Project No.: 0781-020
Client: NYCEDC
Date: Start 9-4-02
Driller: WARREN GEORGE, INC.
Finish 9-4-02
Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert
Total Depth: 40'
Boring Location: Area to the east of Con Ed facility adjacent to Site E
Depth To Water:
Location for: Crane Pad Location M&R Station
Surf. Elevation:
Logged By: Beronica Lee
Hole Diameter: 3-7/8"
Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0	6	19	14	14	1	0	Y	SS1	Black c-f sand, trace silt	
1										
2	9	5	7	27	0.8	0	Y	SS2	Black, brown c-f sand trace silt and	
3									clay, gravel, glass	
4	4	3	2	1	NR	-	-	SS3		
5										
6	1	2	4	4	1.3	0	Y	SS4	Gray silty clay, organic, slightly	PP= 0 tsf
7									micaceous, mod plasticity	
8	2	1	2	3	0.4	0	Y	SS5	Same as above	
9										
10	-	-	-	-	NR	-	N	ST		
11										(ST) Shelby Tube
12	WOH	WOH	WOH	WOH	1.3	0	Y	SS6		
13									Gray, black silty organic clay, mod	
14	-	-	-	-	2	-	Y	ST	plasticity, very soft, slightly micaceous	
15										
16	WOH	WOH	WOH	WOH	2	0	Y	SS7		
17										(WOH) Weight of
18	WOH	WOH	2	2	2	0	Y	SS8	Gray clay, trace silt with reed grass,	hammer
19									organic odor	
20									Gray clay with reed grass, organic odor	
21										
22										
23										
24										
25	2	5	9	14	2	0	Y	SS9		
26										
27										
28									Top 4"-Gray, organic clay, micaceous	
29									Rest-Gray m-f sand with clay and silt	
30	11	16	30	32	0.7	0	Y	SS10	with areas of weathered shcistand high	
31									mica content and rootlets	
32										
33									Gray brown fine sand with little clay,	
34									weathered schist	
35	21	18	21	36	1.3	0	Y	SS11		
36										
37									Rig chatter at 33'	Stone & Webster

LMS Test Boring Log

Boring No.: SW-4

Sheet 2 **of** 2

Project No.: 0781-020

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
38										
39										
40	100/-	-	-	-	NR	-	-	SS12	Bedrock/Refusal	
41									End of Boring 40'	
42										
43										
44										
45										
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										

Classification Of Material

f - fine
m - medium
c - coarse

and - 35-50%
some - 20-35%
little - 10-20%
trace - 0-10%

LMS Test Boring Log

Boring No.: SW-5

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 9-3-02

Driller: WARREN GEORGE, INC. | Finish 9-3-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 40'

Boring Location: Area between A&P parking lot and Con Ed facility | **Depth To Water:**

Location for: Pig Receiver | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Black, c-f gravel with some silts and f-sand, brick, coal ash, micaceous, odor (Fill)	
1	2	12	12	20	1	0	Y	SS1		
2										
3	14	16	25	30	0.7	0	Y	SS2	Same as above (Fill)	
4										
5	27	57	32	43	0.8	0	Y	SS3	Same as above but c-f sands increase, brick, concrete, shell frag	
6										
7	2	3	3	4	0.1	0	Y	SS4	Black, silty, micaceous sand, coal waste, cinder (Fill)	
8										
9	2	2	1/12"	-	0.5	0	Y	SS5	Gray, micaceous silty clay	
10										
11	2	2	4	4	1.2	0	Y	SS6		
12									Gray, micaceous clay, mod-high plasticity, very soft	PP=0 tsf
13	WOH	WOH	WOH	WOH	2	0	Y	SS7		
14										(WOH) Weight of hammer
15									Gray, micaceous clay, very soft	
16										
17	-	-	-	-	2	-	Y	ST		
18										(ST) Shelby Tube
19	4	2	3	6	2	0	Y	SS8		
20										
21										
22									Gray, tan micaceous m-f sand with some silt and clay, bottom of spoon weathered rock	
23										
24										
25	22	29	100/4.5"	-	1	0	Y	SS9		
26										
27										
28									Gray, tan micaceous m-f sand with some c-f gravel and weathered rock, little clay and silt	
29										Drilled to 30'
30	-	-	-	-	1.9	0	Y	CS		
31										
32										
33									Slightly metamorphosed orthoclase granite with milky quartz, some evident foliation into gneiss, fractures appeared somewhat iron stained	Cored 30' - 35'
34										
35	-	-	-	-	2.7	0	Y	CS		Stone & Webster held all samples
36										
37										

LMS Test Boring Log

Boring No.: SW-6

Sheet 1 **of** 1

Project Name: IROQUOIS GAS
Project No.: 0781-020
Client: NYCEDC
Date: Start 8-28-02
Driller: WARREN GEORGE, INC.
Finish 8-30-02
Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert
Total Depth: 27'
Boring Location: Area between A&P parking lot and Con Ed facility
Depth To Water:
Location for: Food Center Drive Crossing
Surf. Elevation:
Logged By: Beronica Lee
Hole Diameter: 3-7/8"
Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
0	12	13	15	20	1	0	Y	SS1	Coal cinder, slag, ash, tar, pavement, glass, gravel, sand, silt (Fill)	
1										
2	25	17	31	36	1.5	0	Y	SS2	Black, orange, tan, silty m-f sand with brick, coal ash, cinder (Fill)	
3										
4	17	21	21	52	0.8	0	Y	SS3	Brown silty f-m gravel with black coal ash, cinder, sheen around black, odor	
5										
6	52	24	10	14	1.5	0	Y	SS4	Top 10"-Dark gray silty micaceous f-gravel with little sand (Fill)	
7										
8	WOH	WOH	1	1	1.8	0	Y	SS5	Bot8" Gray, green micaceous silt with little vf-sand	(WOH) Weight of hammer
9										
10	WOH	WOH	WOH	WOH	NR	-	-	SS6	At 8' Gray silt and vf-sand, shell fragments, micaceous, very soft	
11										
12										
13										
14										
15	2	2	8	13	1	0	Y	SS7		
16									Gray, brown silt and vf-sand with mica, shell fragments, wood and black fine sand lenses~1" diameter	
17										
18										
19										
20	81	44	25	23	0.8	0	Y	SS8		
21										
22										
23									Highly weathered muscovite schist	
24										
25	100/1"	-	-	-	0.1	0	Y	SS9		
26										
27										
28									Weathered gneissic rock with iron staining, Bedrock called @ 25' after drilling to 27' with no advance of spoon	
29										
30										
31									End of Boring @ 27'	
32										
33										
34										
35										
36										
37										

f - fine
m - medium
c - coarse

and - 35-50%
some - 20-35%
little - 10-20%
trace - 0-10%

LMS Test Boring Log

Boring No.: SW-7(A)

Sheet 1 **of** 1

Project Name: IROQUOIS GAS
Project No.: 0781-020
Client: NYCEDC
Date: Start 8-26-02
Driller: WARREN GEORGE, INC.
Finish 8-26-02
Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert
Total Depth: 16'
Boring Location: Food Center Dr. across from the A&P Lot
Depth To Water:
Location for: Food Center Drive Crossing
Surf. Elevation:
Logged By: Beronica Lee
Hole Diameter: 3-7/8"
Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through asphalt to one foot.	
1	25	119	33	14	1	0	Y	SS1	Micaceous c-f sand and c-f gravel, shells, brick	
2										
3	26	26	100/3"	-	0.6	0	Y	SS2	Micaceous, m-f gravel with little f-sand	
4										
5	100/2"	-	-	-	0.8	0	Y	SS3	C-f gravel with silt and c-f sand mostly fine, tire pieces, very dense	
6										
7	100/3"	-	-	-	0.3	0	Y	SS4	Same as above, concrete pieces, very dense	Slow drilling, very hard
8										
9										
10	16	73	14	4	0.7	0	Y	SS5	Gray, black, tan silty c-f sand with little c-f gravel, micaceous	SS6 was second sample from 10' - 12', not representative
11										
12	15	10	11	20	0.8	0	Y	SS7	Top7"-Gray, micaceous silty sand	
13										
14	2	1	12	15	0.7	0	Y	SS8	Bot3"-Brown silty clay with trace gravel, roots	
15										
16									At 14'-Brown, very soft silty clay with trace m-f gravel, roots	PP= 0.5 tsf
17										
18										
19										
20									Casing was advanced to 16', pipe hung up in casing, had to abandon hole with approximately 10 feet of casing and drill bit left in the hole.	
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-7(B)

Sheet 1 **of** 1

Project Name: IROQUOIS GAS
Project No.: 0781-020
Client: NYCEDC
Date: Start 8-27-02
Driller: WARREN GEORGE, INC.
Finish 8-28-02
Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert
Total Depth: 17'
Boring Location: Food Center Dr. across from the A&P Lot
Depth To Water:
Location for: Food Center Drive Crossing
Surf. Elevation:
Logged By: Beronica Lee
Hole Diameter: 3-7/8"
Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled down to 15' to obtain sample at the last sampling depth of 7(a)	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15	100	10	12	23	1	0	Y	SS1		
16									Green, brown silty clay with weathered schist, micaceous, roots, trace gravel	
17										
18										
19									Driller was unable to advance casing past 15', sheared off leaving approximately 4 ft of casing in the hole	
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-8

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-22-02

Driller: WARREN GEORGE, INC. | Finish 8-22-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 32'

Boring Location: Food Center Dr. @ intersect of East Bay Ave north of rail | **Depth To Water:**

Location for: Food Center Drive Rail Spur Crossing | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through asphalt to one foot.	
1	22	16	13	10	1.3	73	Y	SS1	Asphalt, gravelly c-f sand, wood, black coal ash, strong odor (Fill)	
2										
3	19	31	33	33	1.3	57	Y	SS2	Asphalt, black coal ash, c-f sand with little gravel, increase in fines at bottom of spoon, odor (Fill)	
4										
5	7	6	9	6	1.3	73	Y	SS3		
6										
7									At 5' Black, silty c-f sand with little gravel up to 1" diameter, coal ash (Fill)	
8	1	2	2	11	0.4	0.2	Y	SS4	Top 2"-gravel	
9										
10	WOH	/1'	20	24	NR	-	-	SS5	Bot 3"-Brown, silty micaceous clay, soft, non-slightly plastic	(WOH) Weight of hammer
11										
12	15	22	44	36	1	0	Y	SS6		
13									Brown, orange, micaceous, well graded c-f sand with little gravel and trace silt (Till)	
14										
15	27	39	44	100/4"	1	0	Y	SS7		
16									Tan, orange, micaceous, c-f sand mostly fine with some angular gravel up to 1" diameter, very dense (Till)	
17										
18										
19										
20	36	52	100/4"	-	0.3	0	Y	SS8		
21										
22									Gray-tan with orange gravel with c-f sand mostly fine, very dense (Till)	
23										
24										
25	85	110	100/3"	-	0.8	0	Y	SS9		
26										
27									Gray gravelly silty c-f sand mostly fine (Till)	
28										
29										
30	100/2"	-	-	-	0.3	0	Y	SS10		
31										
32										
33									Gray gravelly silty c-f sand mostly fine (Till)	
34										
35									End of Boring @ 32'	
36										
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-9

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-23-02

Driller: WARREN GEORGE, INC. | Finish 8-23-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 31'

Boring Location: Food Center Dr. @ intersect of East Bay Ave south of rail | **Depth To Water:**

Location for: Food Center Drive Rail Spur Crossing | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through asphalt to one foot.	
1	100/2"	-	-	-	0.3	0	Y	SS1	Olive green gravelly c-f sand, m-f gravel, wood, coal cinder, some coal ash, slight odor, micaceous (Fill)	
2										
3	39	47	35	27	1	0.7	Y	SS2		
4									At 3'-black, gravelly c-f sand, trace fines, very dense	
5	13	7	6	13	1.2	0	Y	SS3		
6									At 5'-black, gray clay with some green silt and c-f sand, glass, micaceous, med-high plasticity, no odor	
7	10	6	7	13	1.5	0	Y	SS4		
8										
9	5	7	14	25	0.5	0	Y	SS5	At 7'-Brown, tan, micaceous silty clay, wood,med-high plasticity	Rig chatter while drilling to 9'
10										
11	16	31	35	35	0.3	0	Y	SS6		
12									At 9'-Gray-brown clay with some c-f sand and little m-f gravel, med-high plasticity, micaceous	
13	25	16	45	41	0.7	0	Y	SS7		
14										
15	26	34	92	56	1.3	0	Y	SS8	At 11'-Gray, brown clayey c-f sand with large gravel	
16										
17	18	37	37	60	0.7	0	Y	SS9	At 13'-Iron-stained, black and tan c-f sand with trace f-gravel, micaceous	
18										
19	54	50	37	50	0.8	0	Y	SS10	15'-19' c-f sand with some c-m gravel, trace fines, gneiss gravel, highly micaceous, igneous gravel	
20										
21										
22										
23									At 19'-Gray silty c-f sand with little m-f gravel, micaceous	
24	6	13	73	100/3"	1.7	0	Y	SS11		
25										
26										
27									Gray very coarse sand with little gravel, iron staining, weather gneiss	
28										
29	100/4"	-	-	-	NR	-	-	SS12	Bottom of spoon silty m-f sand, micaceous	
30										
31										
32									Gray silty m-f sand with little gravel	
33									End of Boring @ 31'	
34										
35										
36										
37										

LMS Test Boring Log

Boring No.: SW-10

Sheet 1 **of** 2

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-15-02

Driller: WARREN GEORGE, INC. | Finish 8-16-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 45'

Boring Location: Site C Hunts Point at Main Line Valve Location | **Depth To Water:**

Location for: Main Line Valve | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through concrete/asphalt	
1									Iron-stained, brown, micaceous silty f-c	
2	21	6	8	14	1.2	0	Y	SS1	sand, mostly fine, with some gravel,	
3									brick (Fill)	
4	28	25	20	19	1.3	0	Y	SS2	Brown, very micaceous gravelly, clayey	
5									sand, brick, asphalt (Fill)	
6	7	4	5	4	0.6	0	Y	SS3	Brown, micaceous f-m sand with trace	
7									f-c gravel, brick, loose (Fill)	
8	6	11	7	7	1	0	Y	SS4	Top 6"-Gray to black silty f-c sand with	
9									trace gravel, wood; Bot 6"-Black silty	
10	5	2	2	2	1.3	0	Y	SS5	clay, high plasticity (Fill)	PP<0.5 tsf
11										TORV=1.25
12	3	3	8	5	1.8	0	Y	SS6	Gray to black silty, micaceous clay,	PP=0 tsf
13									high plasticity, very soft (10'-12')	TORV=1.25
14									Gray to black silty, micaceous clay,	PP=0 tsf
15									somewhat high plasticity (12'-14')	TORV =1.25
16										
17										
18	WOH	WOH	WOH	WOH	2	1.4	Y	SS7		
19										
20									Top6"-Black coal ash	(WOH) Weight of
21									Mid12"-Gray, micaceous silty clay	hammer
22									Bot6"-Black coal ash and organic silt	
23										
24										
25	22	41	42	24	0.9	0	Y	SS8		
26									Hard drilling 23' - 24'	
27										
28									Brown, tan, micaceous, f-m sand,	
29									mostly fine, <5% N.P.F.	
30	35	45	91	-	0.6	0	Y	SS9		
31										
32										
33									Gray-brown, micaceous sandy clay,15-	
34									25% f-sand, w/ trace gravel, slight to	
35	30	42	42	44	1.2	0	Y	SS10	mod-plasticity	
36										
37										

LMS Test Boring Log

Boring No.: SW-10
Sheet 2 **of** 2
Project No.: 0781-020

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
38										
39										
40	23	34	21	23	0.8	0	Y	SS11	Brown with iron staining, f-m sand w/ little silt and trace f-gravel	
41										
42										
43										
44	100/4.5"	-	-	-	0.3	0	Y	SS12	Brown and black gravel with some f-c sand, gravel to 1", possible weathered bedrock	Lost tip of spoon in hole, unable to retrieve or advance
45									End of boring at 45'	
46										
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										
61										
62										
63										
64										
65										
66										
67										
68										
69										
70										
71										
72										
73										
74										
75										
76										
77										
78										
79										
80										

Classification Of Material
f - fine
m - medium
c - coarse
and - 35-50%
some - 20-35%
little - 10-20%
trace - 0-10%

LMS Test Boring Log

Boring No.: SW-11

Sheet 1 **of** 3

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-7-02

Driller: WARREN GEORGE, INC. | Finish 8-9-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 92'

Boring Location: Site C Hunts Point | **Depth To Water:** 9'

Location for: HDD Entry | **Surf. Elevation:**

Logged By: Beronica Lee and Mike Pantliano | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0	38	26	12	18	1	11	Y	SS1	Asphalt, organics, silty sand with little gravel, f-c sand, dense (Fill)	
1										
2										
3										
4										
5	19	16	19	18	0.6	0	Y	SS2	Angular gravels with brick, dense (Fill)	
6										
7										
8	12	6	6	6	0.3	0	Y	SS3	Gravel up to an inch in diameter, medium dense (Fill)	
9										
10	8	4	2	8	NR	-	-	SS4		
11										
12	5	3	3	3	1.8	0	Y	SS5	Coal ash, cinder, wood and fine gravel, loose (Fill)	
13										
14										
15	3	2	3	4	0.7	0	Y	SS6		
16									Coal ash, cinder, wood and fine gravel, loose (Fill)	
17										
18										
19										
20	6	5	5	5	0.5	0	Y	SS7		
21									Coal ash, wood, glass, loose (Fill)	
22										
23										
24										Driller called clay @ 23'
25	WOH	WOH	2	2	1.5	0	Y	SS8		
26										
27	-	-	-	-	2	-	Y	ST	Gray silty micaceous clay, reduced organics, very soft, some plasticity	(WOH) Weight of hammer
28										
29	WOH	27	44	37	1.5	0	Y	SS9		
30									27'-29'-Took 3" undisturbed sample in galvanized shelby tube for lab analysis	(ST) Shelby Tube
31										
32										
33									Gray clayey, silty micaceous f-c sand with trace gravel, shell fragments, dense	
34										
35	26	30	41	33	0.7	0	Y	SS10		
36										
37										

LMS Test Boring Log

Boring No.: SW-11
Sheet 2 **of** 3
Project No.: 0781-020

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
38										
39										
40	31	33	28	47	1	0	Y	SS11	Alternating 2" layers of dense gray silty clay to orange clayey, silty sand with mica throughout sample	
41										
42										
43	50	77	91	100/4	1	0		SS12	Iron-stained micaceous c-vc sand with chert gravels >2", very dense	
44										
45	100/5	-	-	-	NR	-	-	SS13		
46										
47										
48										
49										
50	24	30	36	38	1.5	0	Y	SS14		
51									Iron-stained, orange-tan micaceous silty sand, poorly graded, very dense	
52										
53										
54										
55	22	36	38	71	1.5	0	Y	SS15		
56									Iron-stained, orange-tan micaceous silty sand, poorly graded, very dense	
57										
58	25	57	47	51	2	0	Y	SS16		
59										
60	100/5	-	-	-	NR	-	-	SS17	Iron-stained, orange-tan micaceous silty sand with granite pebble and weathered gneiss, very dense	
61										
62										
63										
64										
65	42	34	43	59	1.3	0	Y	SS18		
66										
67										
68									Iron-stained, micaceous c-sand, very dense	
69										
70	53	79	100/1	-	1.3	0	Y	SS19		
71										
72										
73										
74	41	44	51	62	1	0	Y	SS20	Top 12"-Iron-stained, c-sand, very dense	
75										
76									Bottom 3"-Weathered gneiss	
77										
78									Iron-stained, micaceous c-sand, very dense	
79										
80	51	41	41	61		0	Y	SS21		
81										
82										
83										

LMS Test Boring Log

Boring No.: SW-11

Sheet 3 **of** 3

Project No.: 0781-020

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
84										
85	43	56	57	61	1	0	Y	SS22	0-6"-Brown orange c-sand little silt	
86									6-12"-Gray brown clay	
87										
88										
89										
90	41	46	50	42	1.5	0	Y	SS23	Gray sand little silt, micaceous, m-c sand	
91										
92									End of boring @ 92'	
93										
94										
95										
96										
97										
98										
99										
100										

f - fine
m - medium
c - coarse

and - 35-50%
some - 20-35%
little - 10-20%
trace - 0-10%

LMS Test Boring Log

Boring No.: SW-12

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-19-02

Driller: WARREN GEORGE, INC. | Finish 8-19-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 32'

Boring Location: Along Food Center Drive, NW of SW-10 on first lane stripe | **Depth To Water:** 10.5

Location for: Food Center Drive Rail Spur Crossing | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through asphalt to one foot.	
1	43	58	56	61/5"	1.5	0	Y	SS1	Asphalt, gravel and c-sand with some silt, very dense (Fill)	
2										
3	60	45	71	20	0.3	0	Y	SS2	Well graded sand with little gravel and trace clay, brick lodged in tip (Fill)	
4										
5	22	8	5	4	0.7	0	Y	SS3	Brown and black, micaceous silty f-m sand with little gravel (Fill)	
6										
7	6	3	3	3	0.5	0	Y	SS4	Black silty gravel with c-f sand, coal cinder, ash, glass, brick, Bottom of spoon gray/black micaceous clay	
8										
9										
10	6	5	13	10	NR	-	-	SS5		
11										
12	4	3	2	2	2	0	Y	SS6		
13									Gray/black soft micaceous silty clay, bordering on clayey silt	
14										
15	9	10	13	18	1.5	0	Y	SS7		
16									Top 8"-Silty clay with wood	
17									Bot 10"-Brown, micaceous, stiff silty c-f sand with trace gravel	
18										
19										
20	16	17	24	31	1.3	0	Y	SS8		
21									Hard drilling @ 19'	
22									Gray brown, tan and orange, iron-stained, clayey to silty gravel and c-m sand with little weathered bedrock, very micaceous and dense	
23										
24										
25	34	32	38	25	1.4	0	Y	SS9		
26										
27										
28									Tan, gray, orange and black grains of silty c-f sand with trace angular gravel, micaceous, dense, probably weathered rock	
29										
30	43	100/4"	-	-	0.4	0	Y	SS10		
31										
32										
33									Brown-gray,micaceous, sandy clay, 30% c-f sand, very stiff, (Till?)	
34										
35										
36									End of Boring 32'	
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-13

Sheet 1 **of** 1

Project Name: IROQUOIS GAS

Project No.: 0781-020

Client: NYCEDC

Date: Start 8-20-02

Driller: WARREN GEORGE, INC.

Finish 8-20-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert

Total Depth: 26'

Boring Location: Food Center Drive in front of Hunts Point Coop Market Entrance

Depth To Water:

Location for: Food Center Drive Rail Spur Crossing

Surf. Elevation:

Logged By: Beronica Lee

Hole Diameter: 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample and Type #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0									Drilled through asphalt to one foot.	
1	75	31	33	33	1	0	Y	SS1	Asphalt, brick, gravel, ceramic, black silty m-f sand, micaceous, dense (Fill)	
2										
3	19	17	31	21	1.1	0	Y	SS2	Top 3"-Black silty clay with brick	
4									Tan,orange silty c-f sand with little pea-sized gravel and weathered rock, micaceous, dense	
5	18	17	24	19	0.3	0	Y	SS3		
6										
7	15	14	30	33	1.4	0	Y	SS4	Brown, orange, iron-stained, micaceous clayey c-f sand with little gravel up to 1" in diameter, dense	
8										
9	36	39	33	36	0.2	0	Y	SS5		
10									At 9', brown, orange micaceous gravelly silty with trace m-f sand, dense	
11										
12										
13										
14										
15	62	100/5"	-	-	0.6	0	Y	SS6	Gray, orange mottles, sandy silt, non to slightly plastic, c-f sand mostly fine, little gravel, very dense, till-like	
16										
17										
18										
19										
20	58	50	63	85	1.4	0	Y	SS7	Gray, orange mottles, clayey silt with c-f sand mostly fine, micaceous, till-like	
21										
22									Hard drilling from 23' to 25'	
23										
24										
25	93	100/3.5"	-	-	1	0	Y	SS8	Gray, sandy silt with some gravel, c-f sand, micaceous, till-like	
26										
27									End of Boring @ 26'	
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-14

Sheet 1 **of** 2

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 8-12-02

Driller: WARREN GEORGE, INC. | Finish 8-14-02

Drilling Method: Rotary wash w/ 4" casing to 50' open hole w/ revert | **Total Depth:** 86.5'

Boring Location: Site C Hunts Point | **Depth To Water:**

Location for: HDD Entry | **Surf. Elevation:**

Logged By: Beronica Lee and Victor Nyarko | **Hole Diameter:** 3-7/8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0	36	56	43	46	1.3	0	Y	SS1	Asphalt, Black clay, f-c sands and little gravel	
1										
2										
3										
4										
5	2	1	3	2	NR	-	-	SS2		
6										
7										
8										
9										
10	-	-	-	-	-	-	-			
11									Drilled through concrete 10'-12.5'	Victor N. start log
12										
13	1	2	3	5	NR	-	-	SS3		
14										
15	11	0	1	1	0.3	0.2	Y	SS4		
16									Black, very fine unknown material	
17										
18										
19										
20	WOH	WOH	WOH	WOH	0.3	0	Y	SS5		
21										
22									Black, very fine unknown material, gives silver sheen in water and looks like coal tar waste	(WOH) Weight of hammer
23										
24										
25	WOH	WOH	WOH	14			Y	SS6		
26										
27									Black fill material, very fine, gives silver sheen in water, coal tar waste product with hydrocarbon odor	
28										
29										
30	22	24	20	19			Y	SS7		
31										
32									Dark gray, weathered rock rich in mica with fragments of quartz	
33										
34										
35	43	32	18	14	0.6		Y	SS8		
36										
37										Stone & Webster

LMS Test Boring Log

Boring No.: SW-14
Sheet 2 **of** 2
Project No.: 0781-020

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
38										
39										
40	100/0.1	-	-	-	NR	-	-	SS9		
41										
42										
43										
44										
45	18	8	6	7	0.4	-	Y	SS10	Peat, dark gray to black with strong petroleum odor mixed with rock fragments	
46										
47										
48										
49										
50	74	85	100/5	-	0.7	-	Y	SS11	Gray to dark gray f-m sand with little clay	
51										
52										
53										
54										
55	30	32	47	37	0.6	0	Y	SS12	Gray, m-c sand with reddish-brown stains	
56										
57										
58										
59										
60	12	22	16	25	0.6	-	Y	SS13	Dark gray to black clay, highly plastic with slight petroleum odor	
61										
62										
63										
64										
65	25	41	3	63	0.7	-	Y	SS14		
66									Gray, turning to reddish-brown micaceous silt, muscovite rich with no odor	
67										
68										
69										
70	67	80	100/4	-	1.5	-	Y	SS15		
71									Mixed patches of gray and reddish-brown sand, traces of rounded pebbles	
72										
73										
74										
75	44	51	63	88	1.3	-	Y	SS16		
76										
77										
78									Reddish-brown m-f sand with angular to sub-angular pebbles	
79										
80	100/1	-	-	-	0.08	-	Y	SS17		
Bedrock-Mafic rock most probably Muscovite-Biotite Gneiss with traces of garnet. Rock is medium grained with a high percentage of milky quartz									Slightly weathered mafic rock, sandy	Bedrock @ 80', cored 85'-86.5

f - fine
m - medium
c - coarse

and - 35-50%
some - 20-35%
little - 10-20%
trace - 0-10%

ATTACHMENT B
LMS MONITORING WELL LOGS AND WELL CONSTRUCTION LOGS

LMS Test Boring Log

Boring No.: MW-11

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 9-11-02

Driller: WARREN GEORGE, INC. | Finish 9-11-02

Drilling Method: 6- inch hollow stem augers | **Total Depth:** 15'

Boring Location: Food Center Dr. @ intersect of East Bay Ave south of rail | **Depth To Water:** 6.65'

Coordinates: | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
0	-	-	-	-	-	-	-	CR	Asphalt, m-f gravel with c-f sand	
1	28	14	30	40	1.2	56	Y	SS1	Black coal ash, cinder w/ silts and sands, little gravel, wood, slag, pieces of coal tar, odor	
2										
3	3	3.5	-	-	-	-	-	SS2		
4										
5	10	6	4	6	1.7	35	Y	SS3	Coal ash, Black silty c-f sand w/ little gravel	Bottom of spoon wet
6										
7	15	11	16	13	0.5	9.4	Y	SS4	m-f gravel and coarse sand, coal tar, wet, shoe had brown, micaceous silty clay	
8										
9	6	10	22	31	2	0	Y	SS5		
10										
11	4	16	29	100/6"	2	0	Y	SS6	9'-13' Gray, brown, orange mottles, micaceous silty clay with f-sand increasing towards bottom of spoon	
12										
13	76	100/6"	-	-	0.4	0	Y	SS7		
14									Same as above w/ little m-f gravel	
15										
16									End of boring @ 15', set flush mount well with 13' screen	
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										

Classification Of Material: f - fine; m - medium; c - coarse; and - 35-50%; some - 20-35%; little - 10-20%; trace - 0-10%

MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 0781-020

PROJECT NAME: Iroquois Gas Pipeline

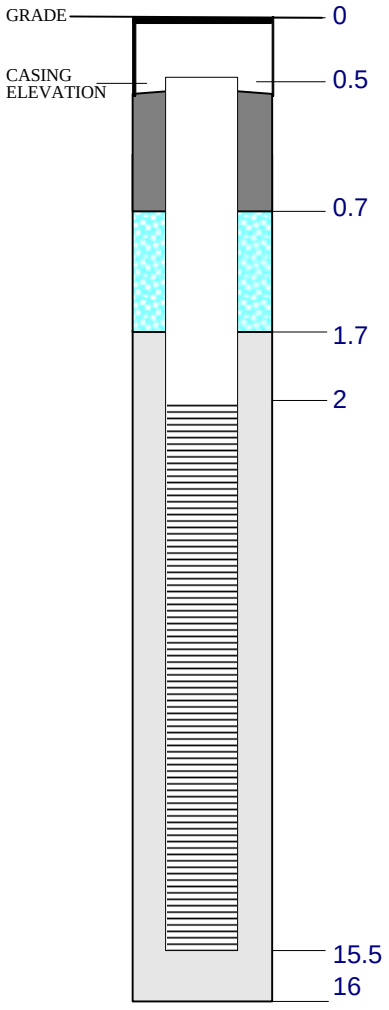
WELL No.: MW-11

CLIENT: NYC EDC

LOCATION: Food Center Drive at intersect of Bay Street Ave. south of rail way

DATE DRILLED:	DATE DEVELOPED:	WELL CONSTRUCTION COMPLETED:
11-Sep-02	24-Sep-02	11-Sep-02

DEVELOPING METHOD: Surged, bailed and pumped with submersible whale pump



NOT TO SCALE

INSPECTOR: Beronica Lee

DRILLING CONTRACTOR: Warren George Inc.

TYPE OF WELL: 2"

STATIC WATER LEVEL: 6.65 DATE: 9/16/2002

MEASURING POINT: TOC TOTAL DEPTH OF WELL: 15.03 TOTAL DEPTH OF BORING: 16

DRILLING METHOD TYPE: Hollow Stem Auger

DIAMETER: 6" CASING: 2"

SAMPLING METHOD TYPE: Split Spoon

DIAMETER: 2" WEIGHT: 135 lb

FALL: 2' INTERVAL: 6"

RISER PIPE LEFT IN PLACE MATERIAL: PVC

DIAMETER: 2" LENGTH: 2' JOINT TYPE: Threaded

SCREEN MATERIAL: PVC

INTERVAL: 2'-15.5' DIAMETER: 2"

STRATIGRAPHIC UNITS SCREENED: SLOT SIZE: 0.010"

FILTER PACK GRADE: #1

SAND: Quartz GRAVEL: NATURAL:

AMOUNT: 3 bags INTERVAL:

SEAL(s)

Portland Cement	INTERVAL:	0.7'-0.5'	AMOUNT:	
Bentonite Slurry	INTERVAL:		AMOUNT:	
Bentonite Pellets	INTERVAL:	0.7'-1.7'	AMOUNT:	
Other:	INTERVAL:		AMOUNT:	

NOTES:
Oversight well installed by ENSR
Set as flushmount.

LOCKING CASING: [X] YES [ ] NO KEY NO:

LMS LAWLER, MATUSKY & SKELLY ENGINEERS LLP

J:\07xx-xxx\0781_New York City Economic Development Corp\0781-020_Iroquios Pipeline\Boring Logs\MW-11MW11 Completion Log

LMS Test Boring Log

Boring No.: MW-12

Sheet 1 **of** 1

Project Name: IROQUOIS GAS | **Project No.:** 0781-020

Client: NYCEDC | **Date:** Start 9-16-02

Driller: WARREN GEORGE, INC. | Finish 9-16-02

Drilling Method: 6- inch hollow stem augers | **Total Depth:** 10'

Boring Location: 1400 Food Center Dr. across from A&P | **Depth To Water:** 6.06'

Coordinates: | **Surf. Elevation:**

Logged By: Beronica Lee | **Hole Diameter:** 8"

Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material	Remarks
0	100/3"								Asphalt, gravel w/ black c-f sand	
1	-	-	-	-	0.5	0	N	SS1	1'-2' Tan, vc-gravel and c-f sand	
2	27	40	52	78	1.7	26	Y	SS2	Brown/black some silt and some sand	
3									w/ little m-f gravel, brick, shells (Fill)	
4	50/0"	-	-	-	NR	-	-	SS3	Brick in shoe	
5	50/0"	-	-	-	NR	-	-	SS4	Hard drilling	
6										
7	5	3	1	2	0.3	0	Y	SS5	Black, silty fine sand w/ trace f-gravel,	
8									micaceous, wet	
9	2	3	4	3	1	0	Y	SS6	Gray, very soft silt w/ little vf-sand,	
10									shells, micaceous, trace clay, wet	
11	WOH	WOH	25	21	1.5	0	Y	SS7	Top 6"-Gray silty clay, shells	
12									Bot12"-Gray silty very fine sand w/ 3" f-	
13									m sand, black, all w/ trace clay	
14										
15										
16									End of boring @ 13', well will be flush	
17									mount and set @ 10' with 8' screen	
18									and 2' riser	
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										

Classification Of Material: f - fine; m - medium; c - coarse. and - 35-50%; some - 20-35%; little - 10-20%; trace - 0-10%

MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 0781-020

PROJECT NAME: Iroquois Gas Pipeline

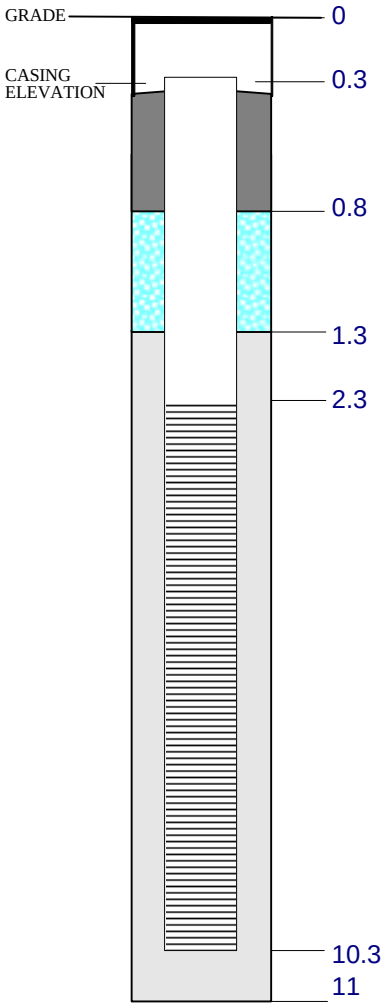
WELL No.: MW-12

CLIENT: NYC EDC

LOCATION: 1400 Food Center Dr. across from A&P

DATE DRILLED:	DATE DEVELOPED:	WELL CONSTRUCTION COMPLETED:
16-Sep-02	24-Sep-02	16-Sep-02

DEVELOPING METHOD: Surged, bailed and pumped with submersible whale pump



NOT TO SCALE

INSPECTOR: Beronica Lee

DRILLING CONTRACTOR: Warren George Inc.

TYPE OF WELL: 2"

STATIC WATER LEVEL: 6.06 DATE: 9/16/2002

MEASURING POINT: TOC TOTAL DEPTH OF WELL: 10 TOTAL DEPTH OF BORING: 11

DRILLING METHOD TYPE: Hollow Stem Auger

DIAMETER: 6" CASING: 2"

SAMPLING METHOD TYPE: Split Spoon

DIAMETER: 2" WEIGHT: 135 lb

FALL: 2' INTERVAL: 6"

RISER PIPE LEFT IN PLACE MATERIAL: PVC

DIAMETER: 2" LENGTH: 2' JOINT TYPE: Threaded

SCREEN MATERIAL: PVC

INTERVAL: 2'-10' DIAMETER: 2"

STRATIGRAPHIC UNITS SCREENED: SLOT SIZE: 0.010"

FILTER PACK GRADE: #1

SAND: Quartz GRAVEL: NATURAL:

AMOUNT: 4 bags INTERVAL: 1.3'-11'

SEAL(s)

Portland Cement	INTERVAL:	0.3'-0.8'	AMOUNT:	
Bentonite Slurry	INTERVAL:		AMOUNT:	
Bentonite Pellets	INTERVAL:	0.8'-1.3'	AMOUNT:	
Other:	INTERVAL:		AMOUNT:	

LOCKING CASING: [X] YES [ ] NO KEY NO:

NOTES:
Oversight well installed by ENSR
Set as flushmount.

LMS LAWLER, MATUSKY & SKELLY ENGINEERS LLP

J:\07xx-xxx\0781_New York City Economic Development Corp\0781-020_Iroquios Pipeline\Boring Logs\MW-12MW 12 Completion Log

LMS Test Boring Log

Boring No.: MW-13

Sheet 1 **of** 1

Project Name: IROQUOIS GAS
Project No.: 0781-020
Client: NYCEDC
Date: Start 9-13-02
Driller: WARREN GEORGE, INC.
Finish 9-13-02
Drilling Method: 6- inch hollow stem augers
Total Depth:
Boring Location: Area near Site E between Con Ed and A&P
Depth To Water:
Coordinates:
Surf. Elevation:
Logged By: Beronica Lee
Hole Diameter: 8"
Monitoring Instrument(s): MiniRAE 2000

Depth (ft)	Blows On Sampler 0"-6"	6"-12"	12"-18"	18"-24"	Recovery (ft)	Instrument Reading	Sample Retained	Sample Type and #	Classification Of Material (f - fine, m - medium, c - coarse; and - 35-50%, some - 20-35%, little - 10-20%, trace - 0-10%)	Remarks
0	8	8	25	20	1	9.2	Y	SS1	c-f gravel with some c-f sand, brown, brick, wood, coal product, micaceous	
1										
2	10	4	2	4	0.3	0	Y	SS2	Same as above	
3										
4	2	3	2	2	1	0	Y	SS3	Black, micaceous, sandy silt w/ little gravel	
5										
6	5	5	5	4	0.5	0	Y	SS4	Black, micaceous, glass, silty clay trace sand	
7										
8	1	1	-	-	1.3	0	Y	SS5	(8'-9')Top8"-Brown, micaceous clayey	
9	WOH	-	-	-	0.5	0	Y	SS6	sand, Bot8"-Gray silt, vf sand w/ shells,	
10	1	1	1	8	2	0	Y	SS7	high silt content, micaceous	
11									(9'-10')Gray silt w/ vf sand, micaceous,	
12									shells	
13									(10'-12')Top16"-Same as above	
14									Bot8"-Gray, silty clay w/ black mottles,	
15									organics	
16										
17										
18									End of boring 12', Stick up well set @	
19									15', riser 5.1' with 2.8' above ground	
20									and screen length of 10'	
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										

MONITORING WELL COMPLETION LOG

PROJECT NUMBER: 0781-020

PROJECT NAME: Iroquois Gas Pipeline

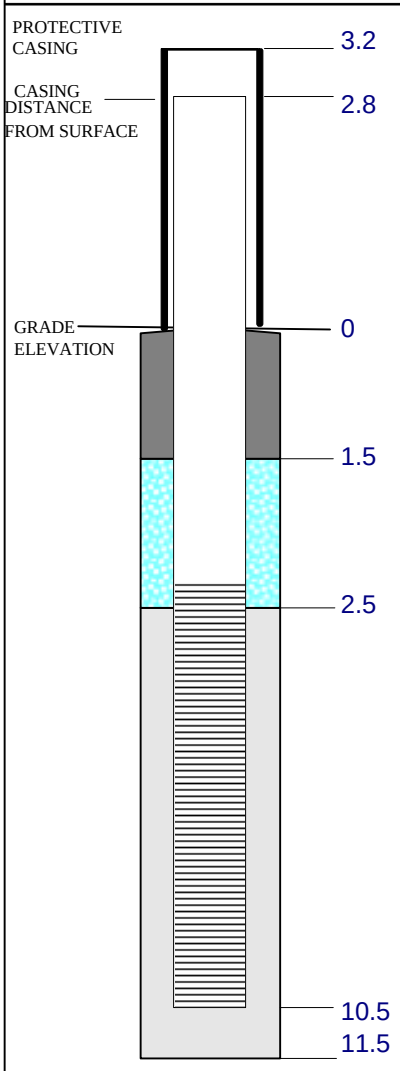
WELL No.: MW-13

CLIENT: NYC EDC

LOCATION: Food Center Drive at intersect of Bay Street Ave. south of rail way

DATE DRILLED:	DATE DEVELOPED:	WELL CONSTRUCTION COMPLETED:
13-Sep-02	24-Sep-02	13-Sep-02

DEVELOPING METHOD: Bailed and submersible whale pump



NOT TO SCALE

INSPECTOR: Beronica Lee

DRILLING CONTRACTOR: Warren George Inc.

TYPE OF WELL: 2"

STATIC WATER LEVEL: 6.65 DATE: 9/16/2002

MEASURING POINT: TOC TOTAL DEPTH OF WELL: 15.1 TOTAL DEPTH OF BORING:

DRILLING METHOD TYPE: Hollow Stem Auger

DIAMETER: 6" CASING: 2"

SAMPLING METHOD TYPE: Split Spoon

DIAMETER: 2" WEIGHT: 135 lb.

FALL: 2' INTERVAL: 6"

RISER PIPE LEFT IN PLACE MATERIAL: PVC

DIAMETER: LENGTH: JOINT TYPE: Threaded

SCREEN MATERIAL: PVC

INTERVAL: 5.5'-10.5' DIAMETER: 2"

STRATIGRAPHIC UNITS SCREENED: SLOT SIZE: 0.010"

FILTER PACK GRADE: #1

SAND: Quartz GRAVEL: NATURAL:

AMOUNT: INTERVAL:

SEAL(s)

Portland Cement	INTERVAL:	AMOUNT:
Bentonite Slurry	INTERVAL:	AMOUNT:
Bentonite Pellets	INTERVAL:	AMOUNT:
Other:	INTERVAL:	AMOUNT:

NOTES:

Oversight well installed by ENSR.
Set as stick-up well.
0.6' at top of casing included in seal.

LOCKING CASING: ☐ YES ☐ NO KEY NO:

LMS LAWLER, MATUSKY & SKELLY ENGINEERS LLP

J:\07xx-xxx\0781_New York City Economic Development Corp\0781-020_Iroquios Pipeline\Boring Logs\MW-13MW13 Completion Log

ATTACHMENT C
ENSR PURGE AND SAMPLE LOGS

Groundwater Purging and Sampling Field Log

ENSR

Well ID #: MW-11
Sample Date: 10/01/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		

Was recalibration conducted? Yes No

	Before Purge	During Purge							Before Sampling
Time	1201	1204	1207	1210	1213	1218	1228	1238	
Depth to Water (ft.)	6.41	6.41	6.41	6.41	6.41	6.41	6.41	6.41	See Page 2
DO (g/l)	3.45	1.06	1.16	1.11	6.03	0.88	1.25	4.04	
Temp. (°C)	21.28	21.9	22.96	24.12	23.97	23.66	23.75	22.77	
pH (SU)	6.49	6.4	6.3	6.34	6.33	6.35	6.34	6.36	
Cond. (mS/cm)	2.6	2.6	2.6	2.59	2.55	2.6	2.6	2.55	
Turb. (NTU)	999.0	999	999	999	999	999	999	806	
ORP (mV)	-62	-62	-59	-55	-52	-55	-59	-61	
Est. Purge Vol. (gal.)		0.24	0.48	0.72	0.96	1.36	2.16	2.96	
Purge Rate (gpm)		0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Water Quality/Clarity									

Notes:

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-11 Sample Date: 10/01/02	Page 2 of 3

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge						Before Sampling
Time	1201	1243	1248	1253	1258	1303	1308	1313	
Depth to Water (ft.)	See Page 1	6.41	6.41	6.41	6.41	6.41	6.41	6.41	See Page 2
DO (g/l)		0.8	0.7	0.7	0.85	1.4	2.88	3.75	
Temp. (°C)		22.89	23.05	23.18	23.12	23.12	23.25	23.24	
pH (SU)		6.36	6.35	6.35	6.36	6.38	6.39	6.41	
Cond. (mS/cm)		2.59	2.6	2.6	2.61	2.61	2.61	2.62	
Turb. (NTU)		674	556	496	532	485	468	362	
ORP (mV)		-72	-76	-81	-85	-91	-99	-104	
Est. Purge Vol. (gal.)		3.36	3.76	4.16	4.56	4.96	5.36	5.76	
Purge Rate (gpm)		0.08	0.08	0.08	0.08	0.08	0.08	0.08	
Quality/Clarity									
Notes:									

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-11
Sample Date: 10/01/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge							Before Sampling
Time		1318	1323						1328
Depth to Water (ft.)	See Page 1	6.41	6.41						6.45
DO (g/l)		4.2	4.93						5.10
Temp. (°C)		23.31	26.53						26.88
pH (SU)		6.42	6.41						6.41
Cond. (mS/cm)		2.62	2.62						2.62
Turb. (NTU)		457	392						378.0
ORP (mV)		-107	-108						-108
Est. Purge Vol. (gal.)		6.16	6.56						-7
Purge Rate (gpm)		0.08	0.08						0.08
Quality/Clarity									
Notes:									

Groundwater Purging and Sampling Field Log

ENSR

* **Well ID #: MW-12**
Sample Date: 10/03/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: J. Senchisen, G. Mattes

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge							Before Sampling
Time	11:25								
Depth to Water (ft.)	6.34	No water quality parameters collected due to the minimal amount of flow and water present in the well.							
DO (g/l)									
Temp. (°C)									
pH (SU)									
Cond. (mS/cm)									
Turb. (NTU)									
ORP (mV)									
Est. Purge Vol. (gal.)									2
Purge Rate (gpm)									NM
Water Quality/Clarity	Purge water was contained visible silt particales.								
Notes:									

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-13
Sample Date: 10/01/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every **20** sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between **6.8** and **7.2**, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge							Before Sampling
Time	1030	1033	1036	1039	1042	1045	1048	1051	
Depth to Water (ft.)	8.85	8.85	8.85	8.85	8.85	8.85	8.85	8.85	
DO (g/l)	1.21	0.64	0.58	0.54	0.53	0.51	0.5	0.52	
Temp. (°C)	23.5	23.08	23.0	23.15	23.08	23.15	23.03	23.08	
pH (SU)	5.66	6.13	6.26	6.38	6.42	6.47	6.51	6.51	
Cond. (mS/cm)	0.935	0.927	0.909	0.901	0.902	0.901	0.9	0.9	
Turb. (NTU)	92	177	98.1	45.9	50.1	12.3	0.0	0.0	
ORP (mV)	NA	NA	NA	NA	NA	NA	NA	NA	
Est. Purge Vol. (gal.)	-	0.630	0.790	1.260	1.890	2.520	3.150	3.78	
Purge Rate (gpm)	-	0.210	0.210	0.210	0.210	0.210	0.210	0.210	
Water Quality/Clarity									
Notes:									

See Page 2

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-13
Sample Date: 10/02/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge							Before Sampling
Time	1026	1054	1057	1100					1103
Depth to Water (ft.)	See Page 1	8.85	8.85	8.85					8.9
DO (g/l)		0.49	0.47	0.47					0.48
Temp. (°C)		23.13	23.14	23.13					23.15
pH (SU)		6.52	6.53	6.54					6.55
Cond. (mS/cm)		0.900	0.899	0.899					0.899
Turb. (NTU)		0.0	0.0	0.0					0
ORP (mV)		NA	NA	NA					NA
Est. Purge Vol. (gal.)		4.41	5.04	5.67					6.3
Purge Rate (gpm)		0.210	0.210	0.210					0.210
Quality/Clarity									
Notes:									

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-1
Sample Date: 10/03/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: J. Senchisen, G. Mattes

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

(Yes) No

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge						Before Sampling
Time	9:15							
Depth to Water (ft.)	6.72	No water quality parameters collected due to the presence of coal tar in the well.						
DO (g/l)								
Temp. (°C)								
pH (SU)								
Cond. (mS/cm)								
Turb. (NTU)								
ORP (mV)								
Est. Purge Vol. (gal.)								3.8
Purge Rate (gpm)								used a Baller
Water Quality/Clarity	Purge water was contained visible silt particales, low turbidity							
Notes:								

Groundwater Purging and Sampling Field Log

ENSR

Well ID #: MW-2
Sample Date: 10/04/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes No

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		

Was recalibration conducted? Yes No

	Before Purge	During Purge							Before Sampling
Time	0850	0855	0900	0905	0910	0915	0920	0925	
Depth to Water (ft.)	5.32	5.32	5.32	6.72	6.72	6.72	6.72	6.72	
DO (g/l)	8.41	1.49	0.84	0.63	0.59	0.57	0.58	0.61	
Temp. (°C)	20.4	21.02	21.2	21.2	21.54	21.47	21.21	21.11	
pH (SU)	5.39	5.64	5.58	5.55	5.65	5.7	5.68	5.77	
Cond. (mS/cm)	0.392	0.373	0.406	0.467	0.51	0.607	0.699	0.811	
Turb. (NTU)	41	347	456	316.0	250.0	132.0	119.0	92.5	
ORP (mV)	184142	119	100	91	79	73	61	52	
Est. Purge Vol. (gal.)		0.13	0.26	0.39	0.52	0.65	0.78	0.91	
Purge Rate (gpm)		0.26	.026	.026	.026	.026	.026	.026	
Water Quality/Clarity	grey color	grey color	grey color	grey color	grey color	grey color	grey color	grey color	

See Page 2

Notes:

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-2
Sample Date: 10/02/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? Yes (No)

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every **20** sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between **6.8 and 7.2**, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		

Was recalibration conducted? Yes No

Time	Before Purge	During Purge							Before Sampling
		0930	0935	0940	0945	0950	0955	1000	
Depth to Water (ft.)	See Page 1	6.72	6.72	6.72	6.72	6.72	6.72	6.72	See Page 3
DO (g/l)		0.82	2.23	6.75	8.74	8.88	9.15	9.21	
Temp. (°C)		21.33	21.21	20.81	20.61	20.71	21	21	
pH (SU)		5.85	5.86	5.94	5.97	5.96	5.96	5.96	
Cond. (mS/cm)		0.882	1.040	1.03	1.11	1.12	1.11	1.1	
Turb. (NTU)		92.4	66.7	55.7	51.9	64.8	46.3	45	
ORP (mV)		38	35	33	32	30	31	35	
Est. Purge Vol. (gal.)		1.04	1.17	1.3	1.43	1.56	1.69	1.82	
Purge Rate (gpm)		.026	.026	.026	.026	.026	.026	.026	
Water Quality/Clarity		grey color	grey color	grey color	grey color	grey color	grey color	grey color	
Notes:									

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-2
Sample Date: 10/02/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

	Before Purge	During Purge						Before Sampling
Time		1005	1010	1015				1020
Depth to Water (ft.)	See Page 1	6.72	6.72	6.72				6.12
DO (g/l)		9.34	9.19	9.4				9.61
Temp. (°C)		20.94	20.91	20.71				20.77
pH (SU)		5.97	5.97	5.97				5.97
Cond. (mS/cm)		1.030	1.020	1.1				1.12
Turb. (NTU)		49.3	49.0	37.2				37.2
ORP (mV)		35	34	32				30
Est. Purge Vol. (gal.)		1.95	2.08	2.21				2.34
Purge Rate (gpm)		.026	.026	.026				0.026
Quality/Clarity		grey color	grey color	grey color				grey color
Notes:								

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-3
Sample Date: 10/04/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? (Yes) No

2) Was structural integrity good? (Yes) No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		

Was recalibration conducted? Yes (No)

	Before Purge	During Purge							Before Sampling
Time	1325	1330	1335	1340	1345	1350	1400	1405	
Depth to Water (ft.)	3.27	3.27	3.27	3.27	3.27	3.27	3.27	3.27	
DO (g/l)	1.19	2.74	0.56	0.62	1.71	3.54	5.5	7.51	
Temp. (°C)	23.0	22.44	22.22	21.92	21.24	21.75	21.45	21.52	
pH (SU)	4	3.96	3.96	3.99	4.00	4.02	4.05	4.06	
Cond. (mS/cm)	2.41	2.76	2.82	2.82	2.85	2.97	2.89	2.92	
Turb. (NTU)	999	432	244	149.0	99.8	69.5	36.1	21.6	
ORP (mV)	21	-36	-45	-53	-57	-55	-58	-63	
Est. Purge Vol. (gal.)	-	0.75	1.50	2.25	3.00	3.75	4.50	5.25	
Purge Rate (gpm)	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	
Water Quality/Clarity	light grey color	light grey color	light grey color	light grey color	light grey color	light grey color	light grey color	light grey color	

See Page 2

Notes:

ENSR Groundwater Purging and Sampling Field Log

Well ID #: MW-3
Sample Date: 10/02/02

Site Location: Food Center Drive, Site C

Street Address: 600 Food Center Drive City: Hunts Point State: NY

Client Name: Iroquois Project Number: 03757-010

Personnel: P. Kies, J. Senchisen

SITE OBSERVATIONS (circle)

1) Was well locked upon arrival? Yes No

2) Was structural integrity good? Yes No

3) Were any unusual conditions observed?

(i.e. odors, staining, unusual site activities, etc.)

Yes (No)

REMINDERS:

1) A Duplicate Set of Samples must be collected for pH, DO, Temperature, and Conductivity after every 20 sets of readings. Please indicate duplicate readings on this Field Log.

2) The pH Check Standard must be taken every 3 hours using the 7.0 buffer. If reading is not between 6.8 and 7.2, the meter must be recalibrated.

Time	pH Reading	Time
3rd Hour		
6th Hour		
9th Hour		
Was recalibration conducted? Yes No		

Time	Before Purge	During Purge							Before Sampling
		1410	1415	1420					1425
Depth to Water (ft.)	See Page 1	3.27	3.27	3.27					3.26
DO (g/l)		8.22	9.18	9.54					9.59
Temp. (°C)		21.47	21.46	21.48					21.32
pH (SU)		4.08	4.09	4.09					4.09
Cond. (mS/cm)		2.920	2.940	2.95					2.92
Turb. (NTU)		15.4	9.7	7.6					5.7
ORP (mV)		-67	-68	-63					-67
Est. Purge Vol. (gal.)		6.00	6.75	7.50					~ 8.50
Purge Rate (gpm)		0.15	0.15	0.15					0.15
Water Quality/Clarity		light grey color	light grey color	light grey color					light grey color
Notes:									

ATTACHMENT D
ENSR SOIL BORING LOGS

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-1
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/19/2002	Date Complete: 12/19/2002	Completion Depth: 8 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 4.0-4.5' and a composite sample from 0-8'		

LOG OF BORING S-1

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-9"	Fill: Asphalt and Concrete	No PID reading
	36"		9"-4.0'	Fill: Black Ash and Cinders,	Petro-like odor
	24"		4'-8'	Fill: Black Ash and Cinders, some tar, glass, and rubber fragments.	Petro-like odor
				End of Boring at 8' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-2
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/19/2002	Date Complete: 12/19/2002	Completion Depth: 8 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 3.5-4.0' and a composite sample from 0-8'		

LOG OF BORING S-2

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
			0-9"	Fill: Asphalt and Concrete	No PID reading
	36"		9"-4.0'	Fill: Black Ash and Cinders, some crushed silttone;	No PID reading, wet
	36"		4.0'-7.0'	Fill: Black Ash and Cinders, some crushed siltstone;	No PID reading, wet
			7.0'-8.0'	Black Peat and Wood fragments, slight sheen	No PID reading, wet
				End of Boring at 8' blg	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-3
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/20/2002	Date Complete: 12/20/2002	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 8.0'-8.5' and a composite sample from 0-8.5'		

LOG OF BORING S-3

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-0.5	Fill: Asphalt and Concrete	No PID reading
			0.5-1.75'	Fill: Black Ash and Cinders	No PID reading
	18"		1.75'-2.0'	Fill: GRAVEL (angular)	No PID reading
			2.0'-3.0'	Fill: Red SILT	No PID reading
			3.0'-4.0'	Fill: Black Ash and Cinders	No PID reading
			4.0'-6.0'	Fill: Black Ash and Cinders	No PID reading
	18"		6.0'-7.0	GRAVEL	No PID reading
			7.0'-8.0'	Olive-green SILT, trace red Brick fragments	No PID reading
			8.0' 12.0'	Olive-green SILT, little Sand, trace Clay	No PID reading
				End of Boring at 12' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-4
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/20/2002	Date Complete: 12/20/2002	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 8.5'-9.0' and a composite sample from 0-9.0'		

LOG OF BORING S-4

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-0.5	Fill: Asphalt and Concrete	No PID reading
			0.5-2.0'	Fill: Black Ash and Cinders	No PID reading
	18"		2.0'-2.5'	Fill: GRAVEL (angular)	No PID reading
			2.5'-4.0'	Black Ash and Cinders, trace of Olive-green Silty CLAY	No PID reading
			3.0'-4.0'	Fill: Black Ash and Cinders	No PID reading
			4.0'-6.0'	Fill: Black Ash and Cinders	No PID reading
	24"		6.0'-8.0'	Fill: Black Ash and Cinders	No PID reading
			7.0'-8.0'	Olive-green SILT, trace red brick fragments	No PID reading
			8.0'-9.0'	Black Ash and Cinders, trace Gravel	No PID reading
	48"		9.0'-10.0'	Olive-brown SILT, some Clay; wet	No PID reading
			10.0'-12.0'	Olive-brown Sandy SILT, trace Clay	No PID reading
				End of Boring at 12' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-5
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/19/2002	Date Complete: 12/19/2002	Completion Depth: 11 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 10.5'-11.0' and a composite sample from 0-11.0'		

LOG OF BORING S-5

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-0.75	Fill: Asphalt and Concrete	No PID reading
	48"		0.75"-4.0'	Fill: Black Ash and Cinders, slight sheen petro-like odor	No PID reading, slight sheen petro-like odor
	48"		4.0'-6.0'	Fill: Black Ash and Cinders	No PID reading
			6.0'-8.0'	Fill: Black Ash and Cinders, some Black SILT	60 ppm on PID
	24"		8.0'-9.0'	Fill: Black Ash and Cinders, some Black SILT	107 ppm on PID
			9.0'-11.0'	Olive-green SILT, slight sheen and petro-like odor	223 ppm on PID, slight sheen petro-like odor
				Refusal @ 11.0'	
				End of Boring at 11' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-6
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/19/2002	Date Complete: 12/19/2002	Completion Depth: 16 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: approx. N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 1.5'-2.0' and a composite sample from 0-12.0'		

LOG OF BORING S-6

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0.0-14.0"	Fill: Asphalt and Concrete	No PID reading
			14.0"-3.5'	Fill: Black Ash and Cinders	20 ppm on PID
	48" (0-4.0')		3.5'- 5.5'	Olive-green Sandy SILT; bottom 2-inches Black/Olive Silty CLAY with rock Fragments	No PID reading
	48" (4.0'-8.0')		5.5'-9.0'	Olive-green Silty SAND with Clay lenses; Olive-green Silty Clay at 7.0'	No PID reading
			9.0'-10.0'	Olive-green Silty SAND, soft	8 ppm on PID
	24" (8.0'-12.0')		10.0'-12.0'	Olive-brown SILT	No PID reading
			12.0'-13.0'	Olive-brown Silty CLAY	No PID reading, wet
	24" (12'-16.0')		13.0'-16.0'	Olive-brown fine grained Silty SAND, trace Gravel	No PID reading
				End of boring @ 16.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-7
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Jon Senchisen		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 1/2/2003	Date Complete: 1/2/2003	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: approx. N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 11.0'-11.5' and a composite sample from 0-12.0'		

LOG OF BORING S-7

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	48" (0-4.0')		0.0-6.0"	Fill: Asphalt and Concrete	No PID reading
			6.0"-2.0'	Fill: Dark Brown Sandy SILT, some Rock Fragments, Brick, and Mica.	No PID reading
			2.0'-2.5'	Fill: Dark Brown Silty CLAY with mottling, trace Red Brick	No PID reading
			2.5'-4.0'	Light Brown to Dark Gray Sandy SILT	No PID reading
	30" (4.0-8.0')		4.0'-4.8'	Light Gray to Light Brown Sandy SILT, trace fine rock fragments (angular).	No PID reading
			4.8'-4.11'	Fill: Red Brick	No PID reading
			4.11'-5.8'	SAND with weathered Rock	No PID reading
			5.8'-5.11'	Red brick, some black rock fragments (angular)	No PID reading, moist
			5.11'-8.0'	Fill material: some Red Brick and Stone Fragments	No PID reading, moist
	42" (8.0-12.0')		8.0'-8.5'	Fill material: some Red Brick and Stone Fragments	No PID reading, moist
			8.5'-10.0'	Light Brown to Gray CLAY	No PID reading, moist
			10.0'-12.0'	Light Brown to Gray Sandy CLAY, some Light Brown Sand	No PID reading, moist
				End of Boring ~ 12.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-8
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Jon Senchisen		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 1/2/2003	Date Complete: 1/2/2003	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: approx. N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 7.5'-8.0' and a composite sample from 0-12.0'		

LOG OF BORING S-8

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0.0-6.0"	Fill: Brown Sandy SILT, some large Gravel	No PID reading, water observed
	32" (0-4.0')		6.0"-1.0'	Fill: Medium to fine SAND	No PID reading
			1.0'-1.3'	Fill: Brown Sandy SILT, some red Brick	No PID reading
			1.3'-1.6'	Fill Material: large GRAVEL (angular), brick, glass	No PID reading
			1.6'-4.0'	Brown to gray Sandy SILT, some glass and mica.	No PID reading, slight odor
	48" (4.0-8.0')		4.0'-6.0'	Fill: Medium to fine SAND	No PID reading, moist
			6.0'-7.0'	Sandy CLAY, trace Wood, Glass, and Gravel	No PID reading, moist
			7.0'-7.1'	Fill: Crushed red brick	No PID reading
			7.1'-8.0'	Dark Brown to Dark Gray CLAY, trace Wood, Glass, and Gravel	No PID reading,strong petro-like odor
				End of Boring ~ 8.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A		Boring#: S-9
Project: Iroquois Pipeline	Location: Hunts Point, NY		
Geologist: Coley Campbell			License #: N/A
Drilling Contractor: Environmental Probing Inc.			License #: N/A
Drilling Equipment: Geoprobe Direct Push			
Date Start: 1/2/2003	Date Complete: 1/2/2003		Completion Depth: 16 feet
Sampler: Jon Senchisen	Hammer Weight: 140 lbs.		Fall: N/A
Well Casing: N/A	Length: N/A		Slot Size: N/A
Screen: N/A	Length: N/A		Water: N/A
Ground Elevation: N/A	Top of Casing: N/A		Top of Screen: N/A
Remarks: Sample collected from 11.0'-11.5' and a composite sample from 0-12.0'			

LOG OF BORING S-9

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-1.0'	Fill: Asphalt and Concrete	No PID reading
	48"		1.0'-1.6'	Fill: Light brown to brown Sandy SILT	No PID reading
			1.6'-2.0'	Fill: SAND with fine Gravel	No PID reading
			2.0'-3.4'	Fill: Dark Gray CLAY, trace Red Brick, Glass	No PID reading
			3.4'-4.0'	Fill: Brown Sandy SILT, some Concrete, fine Gravel (angular)	No PID reading
	24"		4.0'-4.6'	Fill: SAND with some Mica fragments	No PID reading, moist
			4.6'-4.9'	Fill: Coal Ash, crushed concrete	No PID reading, moist
			4.9'-8.0'	Fill: Light Gray to Brown Sandy SILT	No PID reading, moist
	12"		8.0'-12.0'	Fill: Silty CLAY	No PID reading, slight odor, Wet
	18"		12.0'-16.0'	Sandy CLAY	
				End of Boring ~ 16.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

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20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-10
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 1/2/2003	Date Complete: 1/2/2003	Completion Depth: 16 feet
Sampler: Jon Senchisen	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 11.0'-11.5' and a composite sample from 0-12.0'		

LOG OF BORING S-10

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
			0-0.8'	Fill: Asphalt and Concrete	No PID reading
	48"		0.8'-1.0	Fill: Light Brown to Brown Sandy SILT	No PID reading
			1.0'-1.3'	Fill: Gray CLAY (compact) with fine Gravel	No PID reading
			1.3'-1.4'	Fill: Crushed red brick	No PID reading
			1.4'-2.0'	Fill: Brown Silty SAND	No PID reading
			2.0'-3.0'	Fill: Coal Ash, weathered rock	No PID reading
			3.0'-4.0'	Fill: Brown Silty SAND with iron oxidation	No PID reading
	12"		4.0'-4.6'	Fill: Coal Ash, crushed concrete	No PID reading
			4.6'-8.0'	Fill: Reddish-brown Silty SAND with aggregates and evidence of ground water	No PID reading, moist
	30"		8.0'-9.0'	Fill material, large aggregates, stone chips and fine Gravel	No PID reading, moist
			9.0'-10.0'	Dark brown gray Silty CLAY, some fill material	No PID reading, slight odor, moist
			10.0'-12.0'	Light brown ro brown Sandy SILT, some fill material	No PID reading, slight odor, moist
				End of Boring ~ 12.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A		Boring#: S-11
Project: Iroquois Pipeline	Location: Hunts Point, NY		
Geologist: Coley Campbell			License #: N/A
Drilling Contractor: Environmental Probing Inc.			License #: N/A
Drilling Equipment: Geoprobe Direct Push			
Date Start: 12/23/2002	Date Complete: 12/23/2002		Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.		Fall: N/A
Well Casing: N/A	Length: N/A		Slot Size: N/A
Screen: N/A	Length: N/A		Water: N/A
Ground Elevation: N/A	Top of Casing: N/A		Top of Screen: N/A
Remarks: Sample collected from 7.5'-8.0' and a composite sample from 0-12.0'			

LOG OF BORING S-11

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	48"		0.0-1.0'	Fill: Asphalt	No PID readings
			1.0'-2.0'	Fill: Light brown (medium to fine) SAND	No PID readings
			2.0'-4.0'	Fill: Brown Silty SAND, some brick, and fine angular gravel	No PID readings
	12"		4.0'-8.0'	Fill: Brown Silty SAND, some brick, and fine angular gravel	No PID readings, wet at 8.0'
	48"		8.0'-10.0'	Fill: Brown Silty SAND, some brick, and fine (angular) gravel	No PID readings; wet
			10.0-12.0'	Dark gray (dense) Clay with shell fragments	No PID readings
				End of boring @ 12.0' bgs	

Note: N/A- Not Applicable or Not Available

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PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-12
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/23/2002	Date Complete: 12/23/2002	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: approx. N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 4.0'-4.5' and a composite sample from 0-12.0'		

LOG OF BORING S-12

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	48"		0.0-1.0'	Fill: Asphalt	No PID readings
			1.0'-1.5'	Fill: Light brown Silty SAND	No PID readings
			1.5'-2.0'	Fill: Dark gray Silty SAND, some Clay, brick, and fine Gravel	No PID readings 0.7 ppm on PID
			2.0'-4.0'	Light brown Silty SAND, some ash and (angular) gravel	
	36"		4.0'-6.0'	Light brown Silty SAND, some Ash, and (angular) gravel	0.7 ppm on PID No PID readings; Wet at 8.0'
			6.0'-8.0'	Light brown Silty SAND, trace Clay with trace (angular) gravel (Medium to fine) Yellow-brown SAND	No PID readings
	24"		8.0'10.5'	Medium to fine Yellow-brown SAND	No PID readings, wet
			10.5'-12.0'	Medium to fine yellow-brown SAND Dark gray dense wet CLAY with shell fragments	No PID readings
				End of boring @ 12.0' bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

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PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-13
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/23/2002	Date Complete: 12/23/2002	Completion Depth: 8 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 7.0'-7.5' and a composite sample from 0-8.0'		

LOG OF BORING S-13

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	36"		0.0-1.0'	Fill: Asphalt	No PID readings
			12"-30"	Fill: Light gray Silty SAND, with some bricks and fine gravel	No PID readings
			30"-4.0'	Fill: Dark gray Silty SAND, with some Ash and Cinders, tra fine Gravel	No PID readings
	18"		4.0'-6.5'	Fill: Dark gray Silty SAND, with some Ash and Cinders, tra fine Gravel	No PID readings, wet at 7.5'
			6.5'-7.5'	Fill: Dark gray Silty SAND, with some Ash and Cinders, tra fine Gravel	No PID readings, very wet
			7.5'-8.0'	Gray silty medium to fine SAND with fine Gravel; weathered rock in bottom of drill shoe. Refusal	
				End of boring @ 8.0' bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-14
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/23/2002	Date Complete: 12/23/2002	Completion Depth: 12 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 7.0'-7.5' and a composite sample from 0-12.0'		

LOG OF BORING S-14

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	36"		0.0-1.0'	Fill: Asphalt	No PID readings
			1.0'-2.0'	Fill: Light brown (medium to fine) SAND	No PID readings
			2.0'-4.0'	Fill: black brown Sandy SILT, some Ash, Cinders, Mica, Grick and Fine Gravel	No PID readings
	24"		4.0'-7.0'	Fill: black brown Sandy SILT, some Ash, Cinders, Mica, Grick and Fine Gravel	No PID readings
			7.0'-7.5'	Black Cinders	No PID readings, wet at 7.5'
			7.5'-8.0'	Light brown (medium to fine) SAND with trace fine Angular gravel	No PID readings
	12"		8.0'-11.0'	Light brown (medium to fine) SAND with small fine Angular gravel	No PID readings
			11.0'-12.0'	Gray Mica fragments, trace Clay	No PID readings, very wet
				End of boring at 12.0' bgs	

Note: N/A- Not Applicable or Not Available

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PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: S-15
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/23/2002	Date Complete: 12/23/2002	Completion Depth: 8 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks:		

LOG OF BORING S-15

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	36"		0.0-1.0'	Fill: Asphalt	No PID readings
			1.0'-2.0'	Fill: Tan SAND and SILT, Some Ash	No PID readings
			2.0'-4.0'	Fill: Sandy SILT, Some Ash, Cinders, Mica, Brick and Gravel	No PID readings
	36"		4.0'-5.0'	Fill: Sandy SILT, Some Ash, Cinders, Mica, Brick and Gravel	No PID readings
			5.0'-6.0'	Light gray Ash Some Mica fragments sand; Schist in the last 2 inches of Acetate Liner	No PID readings
			6.0'-8.0'	Dark Gray clay some shells	No PID readings, very moist
	12"		8.0'-11.0'	Light brown (medium to fine) grained SAND, Trace small angular gravel	No PID readings
			11.0'-12.0'	GRAY Mica fragments, trace of Clay	No PID readings, very wet
				End of boring at 12.0' bgs	

Note: N/A- Not Applicable or Not Available

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PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A		Boring#: SS-1
Project: Iroquois Pipeline	Location: Hunts Point, NY		
Geologist: Coley Campbell			License #: N/A
Drilling Contractor: Environmental Probing Inc.			License #: N/A
Drilling Equipment: Geoprobe Direct Push			
Date Start: 12/18/2002	Date Complete: 12/18/2002		Completion Depth: 33 inches
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.		Fall: N/A
Well Casing: N/A	Length: N/A		Slot Size: N/A
Screen: N/A	Length: N/A		Water: N/A
Ground Elevation: N/A	Top of Casing: N/A		Top of Screen: N/A
Remarks: Sample collected from 1.0-1.5'			

LOG OF BORING SS-1

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
	24"		0-9"	Fill: Asphalt and Concrete	No PID reading
			9-15"	Fill: Light brown Sandy SILT, trace fine Gravel	8671 ppm from the PID
			15-21"	Fill: dark gray Sandy SILT, trace fine Gravel,	7482 ppm from the PID Petro-like odor
			21-33"	Fill: Black Coal Ash, Sandy SILT with Gravel	
				End of Boring at 33" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-2
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/18/2002	Date Complete: 12/18/2002	Completion Depth: 2 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.5-1.0'		

LOG OF BORING SS-2

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
	18"		0-1"	Fill: Asphalt and Concrete	No PID reading
			1-24"	Fill: Gray medium to fine SAND and SILT, trace slag, fine gravel, brick, glass, ash, and wood	No PID reading
				End of Boring at 24" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A		Boring#: SS-3
Project: Iroquois Pipeline	Location: Hunts Point, NY		
Geologist: Coley Campbell			License #: N/A
Drilling Contractor: Environmental Probing Inc.			License #: N/A
Drilling Equipment: Geoprobe Direct Push			
Date Start: 12/18/2002	Date Complete: 12/18/2002		Completion Depth: 40 inches
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.		Fall: N/A
Well Casing: N/A	Length: N/A		Slot Size: N/A
Screen: N/A	Length: N/A		Water: N/A
Ground Elevation: N/A	Top of Casing: N/A		Top of Screen: N/A
Remarks: Sample collected from 0.5-1.0'			

LOG OF BORING SS-3

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
	22"		0-9"	Fill: Asphalt and Concrete	No PID reading
			9"-40"	Fill: Black SLAG and (medium to fine) SAND and SILT, Trace fine Gravel and Sand conglomerites. Moist at 31" below concrete.	No PID reading
				End of Boring at 40"blg	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-4
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/18/2002	Date Complete: 12/18/2002	Completion Depth: 3 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A N/A
Screen: N/A	Length: N/A	Water: approx. N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.5-1.0'		

LOG OF BORING SS-4

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
	24"		0-1'	Fill: Asphalt and Concrete	No PID reading
			1'-3'	Fill: Gray (medium to fine) SAND and SILT, trace slag brick, ash, and glass	No PID reading
				End of Boring at 36"bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-5
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: Environmental Probing Inc.		License #: N/A
Drilling Equipment: Geoprobe Direct Push		
Date Start: 12/18/2002	Date Complete: 12/18/2002	Completion Depth: 3 feet
Sampler: 4' dia. Macro core	Hammer Weight: 140 lbs.	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.5-1.0'		

LOG OF BORING SS-5

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	24"		0-9"	Fill: Asphalt and Concrete	No PID reading
			9"-24"	Fill: Black SLAG, Sandy Silt, Some glass, brick. Light-yellow Schist and Sand that formed a conglomerite 31" below concrete	slight petro-like odor
				End of Boring at 33" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-6
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: 3/3/2003	Date Complet 3/3/2003	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-6

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-7
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: 3/3/2003	Date Complete 3/3/2003	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-7

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-8
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-8

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	REMARKS
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading, wet
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A		Boring#: SS-10
Project: Iroquois Pipeline	Location: Hunts Point, NY		
Geologist: Coley Campbell			License #: N/A
Drilling Contractor: N/A			License #: N/A
Drilling Equipment: Hand Auger			
Date Start: #######	Date Complete ########		Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A		Fall: N/A
Well Casing: N/A	Length: N/A		Slot Size: N/A
Screen: N/A	Length: N/A		Water: N/A
Ground Elevation: N/A	Top of Casing: N/A		Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'			

LOG OF BORING SS-10

SPLIT SPOON SAMPLES			Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
No.	Rec.	Blows			
	6"		0.0 - 0.5'	Fill: Brown gray SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

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Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-11
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: 3/3/2003	Date Complete 3/3/2003	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-11

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-12
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-12

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: SILTY SAND with some Glass, Brick, and small angular stone	No PID reading, wet
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-14
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-14

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: Brown gray SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-15
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-15

SPLIT SPOON SAMPLES No.	Rec.	Blows	Depth (feet)	SOIL BORING DESCRIPTION (Classification System: Burmeister)	REMARKS
	6"		0.0 - 0.5'	Fill: Brown gray SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-16
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: 3/3/2003	Date Complete 3/3/2003	Completion Depth: 6 Inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-16

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-17
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: 3/3/2003	Date Complete 3/3/2003	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-17

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	REMARKS
	6"		0.0 - 0.5'	Fill: SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-18
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-18

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	REMARKS
	6"		0.0 - 0.5'	Fill: SILTY SAND with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ENSR INTERNATIONAL
20 New England Avenue
PISCATAWAY, NEW JERSEY

Job#: 03757-010-GTB	NJDEP Permit #: N/A	Boring#: SS-19
Project: Iroquois Pipeline	Location: Hunts Point, NY	
Geologist: Coley Campbell		License #: N/A
Drilling Contractor: N/A		License #: N/A
Drilling Equipment: Hand Auger		
Date Start: #######	Date Complete ########	Completion Depth: 6 Inches
Sampler: Hand Auger	Hammer Weight: N/A	Fall: N/A
Well Casing: N/A	Length: N/A	Slot Size: N/A
Screen: N/A	Length: N/A	Water: N/A
Ground Elevation: N/A	Top of Casing: N/A	Top of Screen: N/A
Remarks: Sample collected from 0.0 - 0.5'		

LOG OF BORING SS-19

SPLIT SPOON SAMPLES			Depth	SOIL BORING DESCRIPTION	REMARKS
No.	Rec.	Blows	(feet)	(Classification System: Burmeister)	
	6"		0.0 - 0.5'	Fill: Brown gray SILT with some Glass, Brick, and small angular stone	No PID reading
				End of Boring at 6" bgs	

Note: N/A- Not Applicable or Not Available

ATTACHMENT E
ENSR DATA TABLES

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site C"
Hunts Point, Bronx, New York

Sample Designation	SS-1		SS-2		SS-3		SS-4		SS-5		BW-10		Trip Blank		TAGM 4046
Sample Depth (ft)	0-1		0-1		0-1		0-1		0-1		Equipment Blank		Soil Cleanup		Recommended Soil Cleanup Objectives for Total VOCs
Sample Date	12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002		and Background
Laboratory ID	78391		78392		78393		78394		78395		78396		78397		(March 6, 2002)
PARAMETERS (ppm)											ug/L		ug/L		
VOLATILE ORGANIC COMPOUNDS*															
1,1,1-Trichloroethane	0.0057	UJ	0.0053	UJ	0.0054	UJ	0.0056	UJ	0.0056	UJ	5.0	U	5.0	U	0.8
1,1,2,2-Tetrachloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.6
1,1,2-Trichloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
1,1-Dichloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.2
1,1-Dichloroethene	0.0057	U	0.0053	U	0.0054	U	0.0056	UJ	0.0056	U	5.0	U	5.0	U	0.4
1,2,4-Trichlorobenzene	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	3.4
1,2-Dibromo-3-chloropropane	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	1.0	U	1.0	U	N/A
1,2-Dibromoethane	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	N/A
1,2-Dichlorobenzene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	7.9
1,2-Dichloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.1
1,2-Dichloropropane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
1,3-Dichlorobenzene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	1.6
1,4-Dichlorobenzene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	8.5
2-Butanone	0.029	UJ	0.027	UJ	0.027	UJ	0.028	UJ	0.028	UJ	25.0	UJ	25.0	UJ	0.3
2-Hexanone	0.023	U	0.021	U	0.022	U	0.022	U	0.022	U	20.0	U	20.0	U	N/A
4-Methyl-2-Pentanone	0.023	U	0.021	U	0.022	U	0.022	U	0.022	U	20.0	U	20.0	U	1
Acetone	0.037	J		R		R		R	0.049	J	20.0	U	20.0	U	0.2
Benzene	0.0011	U	0.0011	U	0.0011	U	0.0011	UJ	0.0011	U	1.0	U	1.0	U	0.06
Bromodichloromethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Bromoform	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Bromomethane	0.0057	UJ	0.0053	UJ	0.0054	UJ	0.0056	UJ	0.0056	UJ	5.0	U	5.0	U	N/A
Carbon Disulfide	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	2.7
Carbon Tetrachloride	0.0057	UJ	0.0053	UJ	0.0054	UJ	0.0056	UJ	0.0056	UJ	5.0	U	5.0	U	0.6
Chlorobenzene	0.0057	U	0.0053	U	0.0054	U	0.0056	UJ	0.0056	U	5.0	U	5.0	U	1.7
Chloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	1.9
Chloroform	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.3
Chloromethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
cis-1,2-Dichloroethene	0.0057	UJ	0.0053	UJ	0.0054	UJ	0.0056	UJ	0.0056	UJ	5.0	UJ	5.0	UJ	N/A
cis-1,3-Dichloropropene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Dibromochloromethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Dichlorodifluoromethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Ethylbenzene	0.0011	U	0.0054		0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	5.5
Isopropylbenzene	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	N/A
p&m-Xylenes	0.0023	U	0.017		0.0022	U	0.0022	U	0.0022	U	2.0	U	2.0	U	1.2**
Methylene Chloride	0.0071	UJ	0.0059	UJ	0.0075	UJ	0.006	UJ	0.0062	UJ	5.0	U	5.0	U	0.1
Methyl-t-butyl ether	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	N/A
o-Xylene	0.0011	U	0.0046		0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	1.2**
Styrene	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	1.0	U	1.0	U	N/A
Tetrachloroethene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	1.4
Toluene	0.0027		0.0042		0.0039		0.0011	UJ	0.0035		1.0	U	1.0	U	1.5
trans-1,2-Dichloroethane	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.3
trans-1,3-Dichloropropene	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	N/A
Trichloroethene	0.0057	U	0.0053	U	0.0054	U	0.0056	UJ	0.0056	U	5.0	U	5.0	U	0.7
Trichlorofluoromethane	0.0057	UJ	0.0053	UJ	0.0054	UJ	0.0056	UJ	0.0056	UJ	5.0	U	5.0	U	N/A
Vinyl Chloride	0.0057	U	0.0053	U	0.0054	U	0.0056	U	0.0056	U	5.0	U	5.0	U	0.2
TICs	0.0037	J	0.0042	J	0.52	J	0.0041	J	0.0039	J	ND		ND		
Total VOCs	0.3030		0.2717		0.7711		0.2577		0.3091		-		-		< 10

NA = Not analyzed
* = As per TAGM #4046, total VOCs <10ppm, total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** = Value is for total Xylenes
A = Composite sample
U = Not detected
J = Estimated

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site C"
Hunts Point, Bronx, New York

Sample Designation Sample Depth (ft.) Sample Date (mm/dd/yyyy) Laboratory ID number PARAMETERS (ppm)	SS-1 0-0.5 12/18/2002 75391		SS-2 0.5-1 12/18/2002 75394		SS-3 0.5-1 12/18/2002 75392		SS-4 0.5-1 12/18/2002 75396		SS-5 0.5-1 12/18/2002 75393		BW-10 Equip. Blank 12/18/2002 75397 µg/L		Trip Blank 12/18/2002 75398 µg/L	TAGM 4046 Soil Cleanup Objectives / Eastern USA Background (March 6, 2002)
BASE NEUTRAL COMPOUNDS*														
2,4,5-Trichlorophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.1
2,4,6-Trichlorophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
2,4-Dichlorophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.4
2,4-Dimethylphenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
2,4-Dinitrophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.200 or MDL
2,4-Dinitrotoluene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
2,6-Dinitrotoluene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	1.0
2-Chloronaphthalene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
2-Chlorophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.8
2-Methylnaphthalene	1.2	J	0.35	U	0.71	J	0.38		2.4	J	10	U	N/A	36.4
2-Methylphenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.100 or MDL
2-Nitroaniline	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.430 or MDL
2-Nitrophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.330 or MDL
3&4-Methylphenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	
3,3'-Dichlorobenzidine	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
3-Nitroaniline	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.500 or MDL
4,6-Dinitro-2-methylphenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
4-Bromophenyl-phenyl ether	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
4-Chloro-3-methylphenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.240 or MDL
4-Chloroaniline	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.220 or MDL
4-Chlorophenyl-phenylether	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
4-Nitroaniline	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
4-Nitrophenol	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.100 or MDL
Acenaphthene	0.54	J	0.059	J	0.62	J	0.37	J	1.0	J	10	U	N/A	50
Acenaphthylene	1.6	J	0.35	U	2.1	J	0.39		2.6	J	10	U	N/A	41
Anthracene	2.9		0.091	J	3.6	J	1.2		3.7		10	U	N/A	50
Benzo(a)Anthracene	5.8		0.33	J	6.9		3.7		12		10	U	N/A	0.224 or MDL
Benzo(a)Pyrene	5.0		0.31	J	5.0		3.2		9.6		10	U	N/A	0.061 or MDL
Benzo(b)fluoranthene	5.7		0.5		7.0		4.6		11		10	U	N/A	1.1
Benzo(g,h,i)perylene	2.5		0.079	J	1.7	J	1.0		3.8		10	U	N/A	50
Benzo(k)fluoranthene	2.4		0.24	J	2.7	J	1.5		4.5		10	U	N/A	1.1
Bis(2-chloroethoxy)methane	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Bis(2-chloroethyl)ether	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Bis(2-chloroisopropyl)ether	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Bis(2-ethylhexyl)phthalate	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	50
Butylbenzylphthalate	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	50
Carbazole	0.35	J	0.048	J	1.1	J	0.27	J	0.43	J	10	U	N/A	N/A
Chrysene	5.4		0.41		5.7		3.6		12		10	U	N/A	0.4
Dibenzo(a,h)Anthracene	0.31	J	0.35	U	3.6	U	0.14	J	0.52	J	10	U	N/A	0.014 or MDL
Dibenzofuran	1.5	J	0.078	J	2.1	J	0.37		0.70	J	10	U	N/A	6.2
Diethylphthalate	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	7.1
Dimethylphthalate	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	2.0
Di-n-butylphthalate	1.9	U	0.057	J	3.6	U	0.37	U	3.7	U	10	U	N/A	8.1
Di-n-octylphthalate	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	50
Fluoranthene	11.0		0.61		13.0		6.8		19		10	U	N/A	50
Fluorene	2.3		0.041	J	3.8		0.62		3.3	J	10	U	N/A	50

NA = Not analyzed
* = As per TAGM #4046, total VOCs <10ppm, total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** = Value is for total Xylenes
A = Composite sample
U = Not detected
J = Estimated

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site C"
Hunts Point, Bronx, New York

Sample Designation	SS-1		SS-2		SS-3		SS-4		SS-5		BW-10		Trip Blank	TAGM 4046 Soil Cleanup Objectives for Eastern USA Background (March 6, 2002)
Sample Depth (ft.)	0.0-0.5		0.0-0.5		0.5-1.0		0.0-0.5		0.5-1.0					
Sample Date	12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002					
Laboratory ID Number	78391		78392		78393		78394		78395					
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil	
PARAMETERS (ppm)														
BASE NEUTRAL COMPOUNDS* (Cont.)														
Hexachlorobenzene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.41
Hexachlorobutadiene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Hexachlorocyclopentadiene	1.9	UJ	0.35	UJ	4.0	UJ	0.37	UJ	3.7	UJ	10	UJ	N/A	N/A
Hexachloroethane	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Indeno(1,2,3-cd)pyrene	2.4		0.066	J	1.9	J	1.1		3.7	J	10	U	N/A	3.2
Isophorone	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	4.40
Naphthalene	2.0		0.35	U	0.91	J	0.55		3.0	J	10	U	N/A	13.0
Nitrobenzene	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	0.200 or MDL
N-Nitroso-Di-N-propylamine	1.9	U	0.35	UJ	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
N-Nitrosodiphenylamine	1.9	U	0.35	U	3.6	U	0.37	U	3.7	U	10	U	N/A	N/A
Pentachlorophenol	1.9	U	0.35	UJ	3.6	U	0.37	U	3.7	U	10	U	N/A	1.0 or MDL
Phenanthrene	7.9		0.45		13.0		5.8		18		10	U	N/A	50.0
Phenol	1.9	U	0.35	UJ	3.6	U	0.37	U	3.7	U	10	U	N/A	0.03 or MDL
Pyrene	11.0		0.71	J	11.0		7.1		25		10	U	N/A	50.0
TICs	66.2	J	40.14	J	63.9	J	43.06	J	144.3	J	33	J		
Total Semi-VOCs	215.9		59.639		318.34		100.92		432.25		-			< 500
PESTICIDES														
Aldrin	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.022	J	0.10	UJ	N/A	0.041
Alpha-BHC	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.11
Beta-BHC	0.0038	U	0.0035	U	0.0072	U	0.0037	U	0.0037	U	0.10	U	N/A	0.2
Chlordane	0.0077	U	0.0071	U	0.014	U	0.0074	U	0.0075	U	0.20	U	N/A	0.54
Delta-BHC	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.3
Dieldrin	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.044
Endosulfan I	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.9
Endosulfan II	0.0038	U	0.0035	U	0.0072	U	0.0037	U	0.0083	J	0.10	UJ	N/A	0.9
Endosulfan Sulfate	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	1.0
Endrin	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.10
Endrin Aldehyde	0.0072	J	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.018	J	0.10	UJ	N/A	N/A
Endrin Ketone	0.0056	J	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	N/A
Gamma-BHC	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.06
Heptachlor	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.10
Heptachlor Epoxide	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	0.02
Methoxychlor	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.0037	UJ	0.10	UJ	N/A	**
P,P'-DDD	0.0038	U	0.0035	U	0.0072	U	0.0037	U	0.014	J	0.10	U	N/A	2.9
P,P'-DDE	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.027	J	0.10	UJ	N/A	2.1
P,P'-DDT	0.0038	UJ	0.0035	UJ	0.0072	UJ	0.0037	UJ	0.028	J	0.10	UJ	N/A	2.1
Toxaphene	0.038	U	0.035	U	0.072	U	0.037	U	0.037	U	1.0	U	N/A	N/A
PCB														
Arochlor-1016	0.019	U	0.018	U	0.018	U	0.019	U	0.019	U	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1221	0.019	U	0.018	U	0.018	U	0.019	U	0.019	U	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1232	0.019	U	0.018	U	0.018	U	0.019	U	0.019	U	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1242	0.019	U	0.018	U	0.018	U	0.019	U	0.019	U	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1248	0.019	U	0.018	U	0.018	U	0.019	U	0.019	U	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1254	0.019	U	0.018	U	0.018	U	0.019	U	0.081	J	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1260	0.019	U	0.018	U	0.018	U	0.019	U	0.081	J	0.50	U	N/A	1 (surface)/10(subsurface)

NA = Not analyzed
* = As per TAGM #4046, total VOCs <10ppm, total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** = Value is for total Xylenes
A = Composite sample
U = Not detected
J = Estimated
R = Rejected during data validation

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site C"
Hunts Point, Bronx, New York

Sample Designation	SS-1		SS-2		SS-3		SS-4		SS-5		SW-10		Trip Blank	TAGM #4046 Soil Cleanup Objectives / Eastern USA Background
Sample Depth (ft.)	0.0-1		0.0-1		0.5-1		0.5-1		0.5-1		Equip. Blank			
Sample Date	12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002		12/18/2002	
Laboratory ID Number	75391		75390		75392		75396		75393		75394		75397	
PARAMETERS (ppm)														(March 6, 2002)
METALS														
Aluminum	6,500		10,000		4,200		11,000		11,000		180	U	N/A	SB / 33000
Antimony	2.3	UJ	2.1	UJ	2.2	UJ	2.2	UJ	2.2	UJ	15	U	N/A	SB / NA
Arsenic	5.3		2.1	U	3.3		7.0		6.5		7.5	U	N/A	7.5 or SB / 3-12
Barium	130	J	57	J	47	J	240	J	160	J	50	U	N/A	300 or SB / 15-600
Beryllium	0.69	U	0.76		0.65	U	1.0		0.88		4.0	U	N/A	0.16 or SB / 0-1.75
Cadmium	0.69	U	0.64	U	0.65	U	0.67	U	0.67	U	3.5	U	N/A	1 or SB / 0.1-1
Calcium	10,000	J	16000	J	95,000	J	3,800	J	10,000	J	2,000	U	N/A	SB / 130-35000
Chromium	16	J	7.8	J	16	J	30	J	33	J	50	U	N/A	10 or SB / 1.5-40
Cobalt	6.4		12		3.5		9.1		8.7		20	U	N/A	30 or SB / 2.5-60
Copper	58	J	84	J	20	J	120	J	69	J	50	U	N/A	25 or SB / 1-50
Iron	15,000		26,000		8,400		23,000		23,000		280	U	N/A	2000 or SB / 2000-550000
Lead		R		R		R		R		R	5.0	U	N/A	SB / 200-500
Magnesium	4,400	J	7,100	J	42,000	J	4,400	J	5,800	J	2,000	U	N/A	SB / 100-5000
Manganese	270		280		170		340		190		40	U	N/A	SB / 50-5000
Mercury	0.32		0.15	U	0.15	U	0.73		0.31		0.70	U	N/A	0.1 / 0.001-0.2
Nickel	30	J	13	J	13	J	24	J	23	J	50	U	N/A	13 or SB / 0.5-25
Potassium	1,700		1,800		1,200		3,600		3,800		5,000	U	N/A	SB / 8500-43000
Selenium	2.3	U	2.1	U	2.2	U	2.8		2.5		40	U	N/A	2 or SB / 0.1-3.9
Silver	2.9	U	2.7	U	2.7	U	2.8	U	2.8	U	20	U	N/A	SB / NA
Sodium	570	U	940		540	U	560	U	560	U	5,000	U	N/A	SB / 6000-8000
Thallium	1.4	U	1.3	U	1.3	U	1.3	U	1.3	U	10	U	N/A	SB / NA
Vanadium	28		91		27		36		49		50	U	N/A	150 or SB / 1-300
Zinc	280	J	46	J	42	J	360	J	120	J	50	U	N/A	20 or SB / 9-50
CYANIDE	9		0.26	U	4.90		1.20		20		10	U	N/A	N/A

NA = Not analyzed
* = As per TAGM #4046, total VOCs <10ppm, total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** = Value is for total Xylenes
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J = Estimated
R = Rejected during data validation

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	S-1	S-1 (A)	S-2	S-2 (A)	S-3	S-3	S-4	S-4	S-4	S-4	S-4	S-5	S-5 (A)	S-5 (B)	S-6	S-6	S-6	S-7	S-7 (A)	S-8
Sample Depth (ft.)	4.5-4.6	A	4.5-4.7	A	8.5-8.6	A	8.5-9	A	B	C	D	10.5-11	A	B	5.1-5.2	A	A	(8.0-8.5)	A	(7.5-8.0)
Sample Date	12/19/2002	12/19/2002	12/19/2002	12/19/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/19/2002	12/19/2002	12/19/2002	12/19/2002	12/19/2002	12/19/2002	1/2/2003	1/2/2003	1/2/2003
Laboratory ID Number	75639	75639	75640	75640	75679	75680	75681	75682	75683	75684	75685	76404	76405	76406	76402	76403	76403	76186	76186	76184
PARAMETERS (ppm)																				
VOLATILE ORGANIC COMPOUNDS*																				
1,1,1-Trichloroethane	0.0057 U	0.0066 UJ	0.0068 U	0.0071 U	0.0057 UJ	0.0057 UJ	0.0058 UJ	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 UJ	0.0076 U			
1,1,2,2-Tetrachloroethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 UJ	0.0057 UJ	0.0058 U	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 UJ	0.75 UJ	0.70 UJ	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,1,2-Trichloroethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,1-Dichloroethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,1-Dichloroethene	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.15 U	0.15 U	0.14 U	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
1,2,4-Trichlorobenzene	0.0011 UJ	0.0013 UJ	0.0014 UJ	0.0014 UJ	0.0011 UJ	0.0011 UJ	0.0012 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.15 UJ	0.15 UJ	0.14 UJ	0.0012 UJ	0.0012 UJ	0.0013 UJ	0.0015 UJ			
1,2-Dibromo-3-chloropropane	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.15 UJ	0.15 UJ	0.14 U	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
1,2-Dibromoethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,2-Dichlorobenzene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,2-Dichloroethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,2-Dichloropropane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	1.1	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,3-Dichlorobenzene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	4.1	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
1,4-Dichlorobenzene	0.029 UJ	0.025 J	0.034 UJ	0.036 UJ	R	R	R	R	R	R	3.6 UJ	3.8 UJ	3.5 UJ	0.030 UJ	0.023 J	0.032 UJ	0.038 UJ			
2-Butanone	0.023 U	0.026 U	0.027 U	0.029 U	0.023 U	0.023 U	0.023 U	0.024 U	0.024 U	0.022 U	2.9 U	3.0 U	2.8 U	0.024 U	0.025 UJ	0.025 UJ	0.030 UJ			
2-Hexanone	0.023 U	0.026 U	0.027 U	0.029 U	0.023 U	0.023 U	0.023 U	0.024 U	0.024 U	0.022 U	2.9 UJ	3.0 U	2.8 UJ	0.024 U	0.025 U	0.025 UJ	0.030 UJ			
4-Methyl-2-Pentanone	0.040	0.12 J	0.037	0.029 U	R	0.046 UJ	0.064 UJ	R	R	0.029 UJ	2.9 UJ	3.0 U	2.8 UJ	0.024 U	0.12 J	0.063 J	0.26 J			
Acetone	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	37.0	0.45	0.55	0.0012 U	0.0012 U	0.0017	0.0015 U			
Benzene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Bromodichloromethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 UJ	0.75 UJ	0.70 UJ	0.0060 UJ	0.0062 UJ	0.0063 UJ	0.0076 UJ			
Bromoform	0.0057 UJ	0.0066 UJ	0.0068 UJ	0.0071 UJ	0.0057 UJ	0.0057 UJ	0.0058 UJ	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 UJ	0.0063 U	0.0053 J			
Bromomethane	0.0057 U	0.0027 J	0.0068 U	0.0023 J	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0058 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 UJ	0.0063 UJ	0.0076 UJ			
Carbon Disulfide	0.0057 U	0.0066 UJ	0.0068 U	0.0071 U	0.0057 UJ	0.0057 UJ	0.0058 UJ	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Carbon Tetrachloride	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Chlorobenzene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Chloroethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Chloroform	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Chloromethane	0.0057 UJ	0.0066 UJ	0.0068 UJ	0.0071 UJ	0.0057 UJ	0.0057 UJ	0.0058 UJ	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 UJ	0.75 UJ	0.70 UJ	0.0060 UJ	0.0062 UJ	0.0063 UJ	0.0076 UJ			
cis-1,2-Dichloroethene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
cis-1,3-Dichloropropene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 UJ	0.0063 UJ	0.0076 UJ			
Dibromochloromethane	0.0057 U	0.0066 UJ	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Dichlorodifluoromethane	0.0011 U	0.0069	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	25.0	1.2	5.8	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
Ethylbenzene	0.0011 U	0.0024	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	0.96	0.15 U	0.78	0.0012 U	0.0012 U	0.0013 U	0.003			
Isopropylbenzene	0.0023 U	0.013	0.0027 U	0.0029 U	0.0023 U	0.0023 U	0.0024 U	0.0024 U	0.0024 U	0.0022 U	39.0	1.2	5.28	0.0024 U	0.0025 U	0.0025 U	0.0076 UJ			
p&m-Xylenes	0.0057 U	0.0099 UJ	0.0074 UJ	0.0071 UJ	0.0057 UJ	0.007 UJ	0.0071 UJ	0.0068 UJ	0.0072 UJ	0.0075 UJ	0.30 J	0.75 U	0.70 UJ	0.0060 UJ	0.0062 UJ	0.0067 UJ	0.0076 UJ			
Methylene Chloride	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.0011 UJ	0.0011 UJ	0.0012 UJ	0.0012 UJ	0.0012 UJ	0.0011 UJ	0.15 U	0.15 U	0.14 U	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
Methyl-t-butyl ether	0.0011 U	0.01	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	16.0	0.73	3.60	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
o-Xylene	0.0011 U	0.0013 U	0.0014 U	0.0014 U	0.0011 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0011 U	7.9	0.15 U	0.14 U	0.0012 U	0.0012 U	0.0013 U	0.0015 U			
Styrene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Tetrachloroethene	0.0023	0.0039	0.0039	0.0017	0.0011 U	0.0013	0.0012 U	0.0012 U	0.0014	0.0018	43.0	0.49	0.48	0.0016	0.0023	0.0013 U	0.0017			
Toluene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 UJ	0.75 UJ	0.70 UJ	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
trans-1,2-Dichloroethene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
trans-1,3-Dichloropropene	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Trichloroethene	0.0057 U	0.0066 UJ	0.0068 U	0.0071 U	0.0057 UJ	0.0057 UJ	0.0058 UJ	0.0060 UJ	0.0060 UJ	0.0056 UJ	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 UJ	0.0076 U			
Trichlorofluoromethane	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
Vinyl Chloride	0.0057 U	0.0066 U	0.0068 U	0.0071 U	0.0057 U	0.0057 U	0.0058 U	0.0060 U	0.0060 U	0.0056 U	0.73 U	0.75 U	0.70 U	0.0060 U	0.0062 U	0.0063 U	0.0076 U			
TICs	0.0057 J	0.999 J	0.0111 J	0.021 J	0.021 J	0.0266 J	0.0612 J	0.0199 J	0.0478 J	0.0949 J	232.6 J	51.52 J	136.6 J	0.0215 J	0.0162 J	0.0084 J	0.013 J			
Total VOCs	0.3062	1.4374	0.3599	0.3694	0.2513	0.3044	0.3608	0.2631	0.2916	0.3517	435.83	91.79	190.21	0.3183	0.4108	0.3587	0.6149			

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
B=Selected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft.) / Date Collected / Laboratory ID number / PARAMETERS (ppm)	S-1 4.0-4.5 12/19/2002	S-1 A 12/19/2002	S-2 3.5-4.5 12/19/2002	S-2 A 12/19/2002	S-3 3-3.5 12/20/2002	S-3 A 12/20/2002	S-4 8.5-9 12/20/2002	S-4 A 12/20/2002	S-4 B 12/20/2002	S-4 C 12/20/2002	S-5 10.5-11 12/19/2002	S-5 A 12/19/2002	S-6 1.5-2 12/19/2002	S-6 A 12/19/2002	S-7 (8.0-8.5) 12/20/2002	S-7 A 12/20/2002	S-8 (7.5-8.0) 12/20/2002
BASE NEUTRAL COMPOUNDS*																	
2,4,5-Trichlorophenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2,4,6-Trichlorophenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2,4-Dichlorophenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 UJ
2,4-Dimethylphenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 U
2,4-Dinitrophenol	0.38 UJ	8.8 UJ	0.46 UJ	0.48 UJ	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 UJ	12 UJ	75 UJ	0.40 UJ	0.42 UJ	0.42 UJ	0.51 UJ
2,4-Dinitrotoluene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2,6-Dinitrotoluene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2-Chloronaphthalene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 UJ	0.42 U	0.42 U	0.07 J
2-Chlorophenol	2.5	42	0.46 UJ	0.11 J	0.38 UJ	0.061 J	5.7 J	15 J	0.40 UJ	1.9 UJ	1,400	4.1 J	150 J	0.40 UJ	0.42 U	0.42 U	0.51 U
2-Methylnaphthalene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 U
2-Methylphenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2-Nitroaniline	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
2-Nitrophenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 UJ
3&4-Methylphenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
3,3'-Dichlorobenzidine	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
3-Nitroaniline	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 U
4,6-Dinitro-2-methylphenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
4-Bromophenyl-phenyl ether	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 U
4-Chloro-3-methylphenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 U	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 UJ	0.40 UJ	0.42 U	0.42 U	0.51 U
4-Chloroaniline	0.38 U	8.8 U	0.46 UJ	0.48 UJ	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 UJ
4-Chlorophenyl-phenylether	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 UJ	0.42 U	0.42 U	0.51 U
4-Nitroaniline	0.38 U	8.8 U	0.46 UJ	0.48 UJ	0.38 U	0.38 UJ	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 UJ	0.42 U	0.42 U	0.098 J
4-Nitrophenol	0.58	5.7 J	0.46 U	0.48 U	0.077 J	0.12 J	13	43	0.14 J	3.6	200 J	34	210	0.40 U	0.42 U	0.42 U	0.13 J
Acenaphthene	0.34 J	12	0.46 U	0.48 U	0.052 J	0.29 J	11	18	0.058 J	1.1 J	1,100	13	66 J	0.40 U	0.42 U	0.42 U	0.26 J
Acenaphthylene	0.65	10	0.46 U	0.089 J	0.24 J	0.77 J	27	56	0.28 J	6.2 J	890	35	270 J	0.40 U	0.42 U	0.12 J	0.74
Anthracene	1.7	19	0.46 U	0.064 J	0.88	1.6	38	59	0.33 J	14	830	46	240	0.40 U	0.42 U	0.11 J	0.64
Benzo(a)Anthracene	1.7	15	0.46 U	0.48 U	0.82	1.4	25	46	0.28 J	11	660	39	180	0.40 U	0.42 U	0.14 J	0.74
Benzo(a)Pyrene	2.4	14	0.46 U	0.48 U	1.3	2.1	40	57	0.37 J	18	700	44	200	0.40 U	0.42 U	0.074 J	0.17 J
Benzo(b)fluoranthene	0.68	5 J	0.46 U	0.48 U	0.18 J	0.32 J	4.9	14	0.054 J	2.0	200 J	12	86	0.40 U	0.42 U	0.053 J	0.32 J
Benzo(g,h,i)perylene	0.75	4.7 J	0.46 U	0.48 U	0.42 J	1.0 J	16 J	22 J	0.16 J	5.8 J	310	19	72 J	0.40 U	0.42 U	0.42 U	0.51 U
Benzo(k)fluoranthene	0.36 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
Bis(2-chloroethoxy)methane	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
Bis(2-chloroethyl)ether	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
Bis(2-chloroisopropyl)ether	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
Bis(2-ethylhexyl)phthalate	0.38 U	8.8 U	0.16 J	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 UJ
Butylbenzylphthalate	0.26 J	1.1 J	0.46 U	0.48 U	0.08 J	0.14 J	11 J	15 J	0.12 J	0.67 J	320	9.8 J	92 J	0.40 U	0.42 U	0.12 J	0.69
Carbazole	1.7	22	0.46 U	0.062 J	0.73	1.3	32	50	0.31 J	12	730	42	180	0.40 U	0.42 U	0.42 U	0.51 U
Chrysene	0.098 J	8.8 U	0.46 U	0.48 U	0.38 U	0.055 J	0.92 J	2 J	0.40 U	0.36 J	290 U	1.8 J	14 J	0.40 U	0.42 U	0.42 U	0.052 J
Dibenzo(a,h)Anthracene	0.23 J	2.4 J	0.46 U	0.066 J	0.38 U	0.19 J	13	22	0.094 J	1.20 J	640	24	160	0.40 U	0.42 U	0.42 U	0.51 U
Dibenzofuran	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U
Diethylphthalate	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 UJ	0.400 U	0.046 J	0.42 U	0.092 J
Dimethylphthalate	0.058 J	8.8 U	0.08 J	0.48 U	0.046 J	0.039 J	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.058 J
Di-n-butylphthalate	0.38 U	8.8 U	0.46 U	0.48 U	0.085 J	0.072 J	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.17 J	1.40
Di-n-octylphthalate	2.8	27	0.46 U	0.25 J	1.6	2.8	69	110	0.78	24	1,900	94	490	0.40 U	0.42 U	0.42 U	0.065 J
Fluoranthene	0.57	23	0.46 UJ	0.17 J	0.094 J	0.37 J	30 J	53 J	0.24 J	3.7 J	1,200	35	300 J	0.40 UJ	0.42 U	0.42 U	
Fluorene																	

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and Individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	S-1	S-1	S-2	S-2	S-3	S-3	S-4	S-4	S-4	S-4	S-4	S-5	S-5	S-6	S-6	S-7	S-7	S-8
Sample Depth (ft.)	4.0-4.5	A	3.5-4	A	8-8.6	A	8.6-9	A	B	C	D	(10.5-11)	A	(1.5-2)	A	(8.0-9.6)	A	(7.5-8.0)
Sample Date	12/19/2002	12/19/2002	12/19/2002	12/19/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/20/2002	12/19/2002	12/19/2002	12/19/2002	12/19/2002	1/2/2003	1/2/2003	1/2/2003
Laboratory ID Number	75396	75396	75400	75400	75479	75480	75481	75482	75483	75484	75485	75404	75404	75405	75405	76166	76166	76184
PARAMETERS (ppm)																		
BASE NEUTRAL COMPOUNDS* (Cont.)																		
Hexachlorobenzene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U	
Hexachlorobutadiene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.44 UJ	0.42 UJ	0.42 UJ	0.51 UJ	
Hexachlorocyclopentadiene	0.42 UJ	8.8 UJ	0.50 UJ	0.52 UJ	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 UJ	
Hexachloroethane	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	78	0.40 U	0.42 U	0.061 J	0.14 J	
Indeno(1,2,3-cd)pyrene	0.72	4.6 J	0.46 U	0.48 U	0.20 J	0.38 J	5.7	14	0.065 J	2.3	218 J	13	78	0.40 U	0.42 U	0.42 U	0.51 U	
Isophorone	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.52 J	
Naphthalene	3.9	42	0.46 U	1.4	0.048 J	0.21 J	15 J	46 J	0.40 UJ	1.9 UJ	4,900	65	660 J	0.40 U	0.42 U	0.42 U	0.51 U	
Nitrobenzene	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 UJ	
N-Nitroso-Di-N-propylamine	0.38 U	8.8 U	0.46 U	0.48 U	0.38 UJ	0.38 UJ	3.9 UJ	9.9 UJ	0.40 UJ	1.9 UJ	290 U	12 U	75 UJ	0.40 U	0.42 U	0.42 U	0.51 U	
N-Nitrosodiphenylamine	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.51 U	
Pentachlorophenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.43 J	
Phenanthrene	2.7	59	0.46 U	0.35 J	0.93 J	1.4 J	78 J	150 J	0.79 J	14 J	3,200	98	760 J	0.044 J	0.42 U	0.42 U	0.51 U	
Phenol	0.38 U	8.8 U	0.46 U	0.48 U	0.38 U	0.38 U	3.9 U	9.9 U	0.40 U	1.9 U	290 U	12 U	75 U	0.40 U	0.42 U	0.42 U	0.42 U	3.2
Pyrene	2.9	43	0.46 U	0.24 J	1.9	3.0	65	110	0.71	30	1,700	90	420	0.047 J	0.42 U	0.22 J	0.51 U	
TICs	38.99 J	444.1 J	29.54 J	46.17 J	37.12 J	39.8 J	161.9 J	316.2 J	29.29 J	88.5 J	7,640 J	291.9 J	1,279 J	25.67 J	38.4 J	49.82 J	59.78 J	
Total Semi-VOCs	81.466	1165.2	56.5	73.011	62.762	72.257	822.02	1624.1	51.691	319.93	40910	1502.90	8982	49.001	63.226	72.308	90.505	
PESTICIDES																		
Aldrin	0.0038 U	0.0440 U	0.0046 U	0.0048 U	0.0038 U	0.0038 U	0.078 U	0.2000 U	0.004 U	0.0190 U	0.0039 UJ	0.0800 U	0.3700 U	0.0040 U	0.0042 U	0.0042 U	0.0051 U	
Alpha-BHC	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 UJ	0.004 UJ	0.0190 UJ	0.22 J	0.0800 UJ	0.3700 UJ	0.0040 UJ	0.0042 UJ	0.0042 UJ	0.0051 UJ	
Beta-BHC	0.0038 U	0.0440 U	0.0046 U	0.0048 U	0.0038 U	0.0038 U	0.078 U	0.2000 U	0.004 U	0.0190 U	0.0039 UJ	0.0800 UJ	0.3700 U	0.0040 U	0.0042 UJ	0.0042 UJ	0.0051 UJ	
Chlordane	0.0077 U	0.35 J	0.0091 U	0.0095 U	0.0077 U	0.0077 U	0.92 J	0.87 J	0.0079 U	0.19 J	0.0078 U	1.60 J	0.8 U	0.0079 U	0.0083 U	0.0084 U	0.010 U	
Delta-BHC	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 UJ	0.004 UJ	0.0190 U	0.14 J	0.0800 UJ	0.3700 UJ	0.0040 UJ	0.0042 UJ	0.0042 UJ	0.0051 UJ	
Dieldrin	0.0038 UJ	0.0440 U	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 U	0.18 J	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 U	0.0051 U	
Endosulfan I	0.0038 UJ	0.0440 U	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 U	0.0039 U	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 U	0.0051 U	
Endosulfan II	0.0038 UJ	0.0440 U	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 U	0.0039 U	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 UJ	0.0051 UJ	
Endosulfan Sulfate	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 UJ	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 U	0.0051 U	
Endrin	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 U	0.0051 U	
Endrin Aldehyde	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.016 J	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 U	0.0051 U	
Endrin Ketone	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 UJ	0.0051 UJ	
Gamma-BHC	0.0038 U	0.0440 U	0.0046 U	0.0048 U	0.0038 U	0.0038 U	0.078 U	0.2000 U	0.004 U	0.0190 U	0.0039 U	0.0800 UJ	0.3700 U	0.0040 U	0.0042 UJ	0.0042 UJ	0.0051 U	
Heptachlor	0.0038 U	0.0440 U	0.0046 U	0.0048 U	0.0038 U	0.0038 U	0.078 U	0.2000 U	0.004 U	0.0190 U	0.0039 U	0.0800 U	0.3700 U	0.0040 U	0.0042 U	0.0042 U	0.0051 U	
Heptachlor Epoxide	0.0038 UJ	0.0440 U	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 UJ	0.004 UJ	0.0190 U	0.0039 UJ	0.0800 U	0.3700 UJ	0.0040 U	0.0042 UJ	0.0042 UJ	0.0051 UJ	
Methoxychlor	0.0038 U	0.0440 U	0.0046 U	0.0048 U	0.0038 U	0.0038 U	0.078 U	0.2000 U	0.004 U	0.0190 U	0.0039 U	0.0800 UJ	0.3700 U	0.0040 U	0.0042 U	0.0042 U	0.0051 U	
P,P'-DDD	0.0038 UJ	0.0440 U	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 U	0.004 UJ	0.0190 U	0.0039 U	0.0800 U	0.3700 UJ	0.0040 UJ	0.0042 U	0.0042 UJ	0.0051 UJ	
P,P'-DDE	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 UJ	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 UJ	3.0 J	0.0040 UJ	0.0042 UJ	0.0042 UJ	0.0051 UJ	
P,P'-DDT	0.0038 UJ	0.0440 UJ	0.0046 UJ	0.0048 UJ	0.0038 UJ	0.0038 UJ	0.078 UJ	0.2000 UJ	0.004 UJ	0.0190 UJ	0.0039 UJ	0.0800 UJ	3.0 J	0.0040 UJ	0.0042 UJ	0.0042 UJ	0.0051 UJ	
Toxaphene	0.038 U	0.440 U	0.046 U	0.048 U	0.038 U	0.038 U	0.78 U	2.000 U	0.040 U	0.1900 U	0.039 U	0.800 U	3.700 U	0.040 U	0.042 U	0.042 U	0.051 U	
PCB																		
Arochlor-1016	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.019 U	0.020 U	0.020 U	0.019 U	0.019 U	0.020 U	0.94 U	0.020 U	0.021 U	0.021 U	0.025 U	
Arochlor-1221	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.019 U	0.020 U	0.020 U	0.019 U	0.019 U	0.020 U	0.94 U	0.020 U	0.021 U	0.021 U	0.025 U	
Arochlor-1232	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.019 U	0.020 U	0.020 U	0.019 U	0.019 U	0.020 U	0.94 U	0.020 U	0.021 U	0.021 U	0.025 U	
Arochlor-1242	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.019 U	0.020 U	0.020 U	0.019 U	0.019 U	0.020 U	0.94 U	0.020 U	0.021 U	0.021 U	0.025 U	
Arochlor-1248	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.019 U	0.020 U	0.020 U	0.019 U	0.019 U	0.020 U	0.94 U	0.020 U	0.021 U	0.021 U	0.025 U	
Arochlor-1254	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U	0.180 J	0.390 J	0.020 U	0.019 U	6.3 J	0.22 J	28 J	0.020 U	0.021 UJ	0.021 UJ	0.025 UJ	
Arochlor-1260	0.019 U	0.022 U	0.023 U	0.024 U	0.019 U	0.019 U												

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** =Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft.) / Sample Date / Laboratory ID Number / PARAMETERS (ppm)	S-1 4.0-4.5 12/19/2002	S-1 A 12/19/2002	S-2 3.5-4.5 12/19/2002	S-2 A 12/19/2002	S-3 5-6.5 12/20/2002	S-3 A 12/20/2002	S-4 6.5-9 12/20/2002	S-4 A 12/20/2002	S-4 B 12/20/2002	S-4 C 12/20/2002	S-5 10.5-11 12/19/2002	S-5 A 12/19/2002	S-6 1.5-2 12/19/2002	S-6 A 12/19/2002	S-7 (8.0-8.5) 12/2/2003	S-7 A 12/2/2003	S-8 (7.5-8.0) 12/2/2003
METALS																	
Aluminum	5,700	6,600	1,400	1,300	13,000	11,000	7,100	8,600	15,000	9,600	12,000	7,300	7,200	18,000	18,000	18,000	12,000
Antimony	2.3 U	2.6 U	2.7 U	2.9 U	2.3 UJ	2.3 UJ	2.3 UJ	2.4 UJ	2.4 UJ	2.20 UJ	2.3 U	2.4 U	2.2 U	2.4 U	2.5 UJ	3.8	3.0 UJ
Arsenic	12	19	3.2	2.9 U	2.3 U	5.8	5.6	8.4	2.4 U	2.20 U	5.6	9.6	4.2	2.4	3.4	5.0	
Barium	70	250	37	79	160	160	110	130	90	98	77	130	89	65	70 J	78 J	87 J
Beryllium	0.97	3.3	0.82 U	0.86 U	0.73	0.69 U	0.70 U	0.71 U	0.71 U	0.67 U	0.78	0.72 U	0.8	0.94	0.75 U	0.76 U	0.91 U
Cadmium	0.69 U	4.3	0.82 U	0.86 U	3.4	0.69 U	0.70 U	0.71 U	0.71 U	0.67 U	0.70 U	0.72 U	0.67 U	0.71 U	0.75 U	0.76 U	0.91 U
Calcium	1,100 U	2,500	1,400 U	1,400 U	22,000	4,000	40,000	6,100	1,500	4,500	4,200	13,000	4,900	1,200 U	R	R	R
Chromium	15	83	9.2	11	30	29	48	22	36	23	25	18	17	36	32	32	40
Cobalt	4.6	25	3.4 U	3.6 U	12	7.9	5.3	7.1	12	6.3	7.3	5.9	14	9.5	9.8	9.8	5.7
Copper	110	270	40	44	52	100	62	79	30	36	35	59	36	21	21 J	28 J	40 J
Iron	14,000	70,000	3,300	1,400	24,000	24,000	18,000	19,000	27,000	18,000	19,000	18,000	15,000	23,000	23,000 J	22,000 J	20,000 J
Lead	77	2,100	6.8 U	15	130	160	140	190	8.7	49	49	180	80	7.8	22 J	32 J	87 J
Magnesium	1,100	1,400	680 U	710 U	7,800	5,000	12,000	3,300	4,900	3,500	3,200	4,100	2,400	4,200	4,300 J	6,300 J	7,600 J
Manganese	72	620	14 U	14 U	310	280	240	260	470	210	290	280	240	340	270	330	200
Mercury	0.16 U	1.6	0.19 U	0.2 U	0.16 U	0.52	0.40	0.84	0.17 U	0.16 U	0.21	0.9	0.27	0.17 U	0.18 U	0.18 U	0.50
Nickel	17	130	6.8 U	7.1 U	32	20	17	18	26	18	16	17	35	18	19	20	17
Potassium	840	660 U	680 U	710 U	6,300	3,100	1,800	1,500	2,400	2,600	1,500	2,000	2,100	1,600	1,100 J	1,800 J	3,300 J
Selenium	2.3 U	6.9	2.7 U	2.9 U	2.3 U	2.3 U	2.3 U	2.4 U	2.4 U	2.2 U	2.5	2.4 U	2.2 U	2.4 U	2.5 U	2.5 U	3 U
Silver	2.9 U	3.3 U	3.4 U	3.6 U	2.9 U	2.9 U	2.9 U	3.0 U	3.0 U	2.8 U	2.9 U	3.0 U	2.8 U	3 U	3.1 U	3.2 U	3.8 U
Sodium	800	660 U	680 U	710 U	570 U	570 U	580 U	600 U	600 U	560 U	580 U	600 U	560 U	600 U	620 U	630 U	760
Thallium	1.4 U	1.6 U	1.6 U	1.7 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.3 U	1.4 U	1.4 U	1.3 U	1.4 U	1.5 U	1.5 U	1.8 U
Vanadium	25	25	14 U	14 U	42	36	32	31	42	33	37	33	51	45	39	39	42
Zinc	290	1,700	14 U	14 U	150	170	120	160	51	65	68	150	84	37	150 J	140 J	69 J
CYANIDE	0.39	1.4	2.1	4.6	2.2	2.9	4.4	5.8	0.61	0.29	4.1	6.3	9.1	0.3 U	0.38	0.32 U	0.61

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and Individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	S-8		S-9		S-9		S-10		S-10		S-11		S-11		S-12		S-12		S-13		S-13		S-14		S-14		S-15		S-15		S-16		S-30		S-30		FB121902	
Sample Depth (ft.)	A		(11-11.5)		A		(11-11.5)		A		7.5-8		A		4-4.5		A		7-7.5		A		7-7.5		A		7-7.5		A		7-7.5		A		Duplicate		12/19/2002	
Date Sampled	12/2/2002		12/2/2002		12/2/2002		12/2/2002		12/2/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/19/2002	
Laboratory ID Number	76169		76170		76171		76176		76176DL		76177		76778		76778		76774		76773		76772		76771		76770		76769		76768		76775		76776		76777		74406	
Percent Solids	84.1		74.6		87.6		83.3				79.2		79.2		86.4		86.4		87.6		87.6		87.6		87.6		87.6		87.6		87.6		87.6		87.6		100	
PARAMETERS (ppm)																																						
VOLATILE ORGANIC COMPOUNDS*																																						
1,1,1-Trichloroethane	0.0057	U	0.0068	U	0.0057	U	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
1,1,2,2-Tetrachloroethane	0.0057	UJ	0.0068	UJ	0.0057	UJ	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,1,2-Trichloroethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,1-Dichloroethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,1-Dichloroethene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,2,4-Trichlorobenzene	0.0011	U	0.0014	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0010	UJ	1.0	U
1,2-Dibromo-3-chloropropane	0.0011	UJ	0.0014	UJ	0.0011	UJ	0.0012	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0011	UJ	0.0010	UJ	0.0011	UJ	0.0011	UJ	0.0010	UJ	1.0	U
1,2-Dibromoethane	0.0011	U	0.0014	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
1,2-Dichlorobenzene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,2-Dichloroethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,2-Dichloropropane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,3-Dichlorobenzene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
1,4-Dichlorobenzene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
2-Butanone	0.028	UJ	0.034	UJ	0.028	UJ	0.030	UJ	0.029	UJ	0.028	UJ	0.028	UJ	0.027	UJ	0.027	UJ	0.027	UJ	0.027	UJ	0.028	UJ	0.027	UJ	0.026	UJ	0.027	UJ	0.027	UJ	0.026	UJ	25	U
2-Hexanone	0.023	U	0.027	U	0.023	U	0.024	UJ	0.023	UJ	0.022	U	0.023	U	0.022	U	0.022	U	0.022	U	0.022	U	0.023	U	0.022	U	0.020	U	0.022	U	0.022	U	0.021	U	20	U
4-Methyl-2-Pentanone	0.023	U	0.027	U	0.023	U	0.024	U	0.023	U	0.022	U	0.023	U	0.022	U	0.022	U	0.022	U	0.022	U	0.023	U	0.022	U	0.020	U	0.022	U	0.022	U	0.021	U	20	U
Acetone	0.065	J	0.048	J	0.033	J		R		R		R		R	0.083	J	0.037	J	0.032	J	0.026	J	0.14	J	0.045	J		R		R		R	0.028	J	20	U
Benzene	0.0011	U	0.0014	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
Bromodichloromethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Bromoform	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	UJ	5.0	U
Bromomethane	0.0057	UJ	0.0068	UJ	0.0057	UJ	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	U	5.0	U
Carbon Disulfide	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Carbon Tetrachloride	0.0057	UJ	0.0068	UJ	0.0057	UJ	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
Chlorobenzene	0.0022	J	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Chloroethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Chloroform	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Chloromethane	0.0057	UJ	0.0068	UJ	0.0057	UJ	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
cis-1,2-Dichloroethene	0.0057	UJ	0.0068	UJ	0.0057	UJ	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
cis-1,3-Dichloropropene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Dibromochloromethane	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	UJ	5.0	U
Dichlorodifluoromethane	0.0057	U	0.0068	U	0.0057	U	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
Ethylbenzene	0.0011	U	0.0014	U	0.0011	U	0.0082		0.0042		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
Isopropylbenzene	0.0011	U	0.0014	U	0.0011	U	0.0012		0.0013		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
p&m-Xylenes	0.0023	U	0.0027	U	0.0023	U	0.0015	J	0.0023	U	0.0022	U	0.0023	U	0.0022	U	0.0022	U	0.0022	U	0.0022	U	0.0023	U	0.0022	U	0.0020	U	0.0022	U	0.0022	U	0.0021	U	2.0	U
Methylene Chloride	0.0059	UJ	0.0073	UJ	0.0057	UJ	0.0081	UJ	0.0066	UJ	0.015	UJ	0.011	UJ	0.011	UJ	0.011	UJ	0.010	UJ	0.010	UJ	0.012	UJ	0.012	UJ	0.011	UJ	0.011	UJ	0.0092	UJ	0.0062	UJ	1.2	J
Methyl-t-butyl ether	0.0011	U	0.0014	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
o-Xylene	0.0011	U	0.0014	U	0.0011	U	0.0041		0.002		0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
Styrene	0.0011	U	0.0014	U	0.0011	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0010	U	0.0011	U	0.0011	U	0.0010	U	1.0	U
Tetrachloroethene	0.0018	J	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Toluene	0.0011	U	0.0024		0.0011	U	0.0012	U	0.0011	U	0.016		0.019		0.0011	U	0.011	J	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.0097	U	0.018		1.0	U
trans-1,2-Dichloroethene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
trans-1,3-Dichloropropene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Trichloroethene	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
Trichlorofluoromethane	0.0057	U	0.0068	U	0.0057	U	0.0060	UJ	0.0057	UJ	0.0056	UJ	0.0057	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0054	UJ	0.0057	UJ	0.0055	UJ	0.0051	UJ	0.0054	UJ	0.0054	UJ	0.0052	UJ	5.0	U
Vinyl Chloride	0.0057	U	0.0068	U	0.0057	U	0.0060	U	0.0057	U	0.0056	U	0.0057	U	0.0054	U	0.0054	U	0.0054	U	0.0054	U	0.0057	U	0.0055	U	0.0051	U	0.0054	U	0.0054	U	0.0052	U	5.0	U
TICs	0.0036	J	ND		ND		0.0736	J	0.1488	J	ND		0.0043	J	0.0043	J	0.0038	J	0.0095	J	0.004	J	0.0043	J	0.0048	J	0.0074	J	ND		0.0086	J	0.0032	J	ND	
Total VOCs	0.3197		0.3582		0.2913		0.3571		0.4132		0.2775		0.2858		0.3391		0.3025		0.2923		0.2808		0.4089		0.3055		0.2444		0.2518		0.2672		0.2853		-	

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft.) / Laboratory Data No. / Date Sampled / PARAMETERS (ppm)	S-8 (7-7.5) A 7/165 12/23/2002		S-9 (7-7.5) A 7/166 12/23/2002		S-9 (7-7.5) A 7/167 12/23/2002		S-10 (7-7.5) A 7/168 12/23/2002		S-10 (7-7.5) A 7/169 12/23/2002		S-11 (7-7.5) A 7/170 12/23/2002		S-11 (7-7.5) A 7/171 12/23/2002		S-12 (4-4.5) 7/172 12/23/2002		S-12 (7-7.5) A 7/173 12/23/2002		S-13 (7-7.5) 7/174 12/23/2002		S-13 (7-7.5) A 7/175 12/23/2002		S-14 (7-7.5) 7/176 12/23/2002		S-14 (7-7.5) A 7/177 12/23/2002		S-15 (7-7.5) A 7/178 12/23/2002		S-15 (7-7.5) A 7/179 12/23/2002		S-16 (7-7.5) A 7/180 12/23/2002		S-30 (7-7.5) 7/181 12/23/2002 Duplicate of S-13		S-30 (7-7.5) A 7/182 12/23/2002 Duplicate of S-13		FB121902 7/183 12/19/2002 Grab Water	
BASE NEUTRAL COMPOUNDS*																																						
2,4,5-Trichlorophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2,4,6-Trichlorophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2,4-Dichlorophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2,4-Dimethylphenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2,4-Dinitrophenol	0.38	UJ	0.45	UJ	0.38	U	0.40	U	0.38	UJ	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
2,4-Dinitrotoluene	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2,6-Dinitrotoluene	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2-Chloronaphthalene	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2-Chlorophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2-Methylnaphthalene	0.38	UJ	0.45	UJ	0.38	U	0.40	U	0.85	J	0.37	U	0.058	J	0.043	J	0.36	UJ	0.052	J	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.058	J	0.35	UJ	10	U
2-Methylphenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
2-Nitroaniline	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
2-Nitrophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
3&4-Methylphenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
3,3'-Dichlorobenzidine	0.38	UJ	0.45	UJ	0.38	U	0.40	U	0.38	UJ	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
3-Nitroaniline	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
4,6-Dinitro-2-methylphenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	U	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
4-Bromophenyl-phenyl ether	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
4-Chloro-3-methylphenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
4-Chloroaniline	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
4-Chlorophenyl-phenylether	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.36	UJ	0.38	UJ	0.37	UJ	0.34	U	0.36	UJ	0.36	UJ	0.35	UJ	10	U
4-Nitroaniline	0.38	U	0.45	UJ	0.38	U	0.40	U	0.38	UJ	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
4-Nitrophenol	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.15	J	0.35	U	10	U
Acenaphthene	0.092	J	0.051	J	0.38	U	0.40	U	0.33	J	0.37	U	0.11	J	0.36	U	0.36	U	0.096	J	0.043	J	0.041	J	0.17	J	0.34	U	0.36	U	0.15	J	0.35	U	10	U
Acenaphthylene	0.1	J	0.45	UJ	0.38	U	0.40	U	0.16	J	0.37	U	0.17	J	0.11	J	0.36	U	0.11	J	0.039	J	0.38	U	0.050	J	0.34	U	0.36	UJ	0.59	J	0.35	U	10	U
Anthracene	0.36	J	0.14	J	0.38	U	0.40	U	0.71	J	0.37	U	0.49	J	0.26	J	0.089	J	0.30	J	0.27	J	0.16	J	0.57	J	0.34	U	0.12	J	2.6	J	0.092	J	10	U
Benzo(a)Anthracene	1.1		0.39	J	0.38	U	0.11	J	1.7		0.10	J	3.0		1.1		0.20	J	0.93	J	0.88	J	0.69		1.7		0.34	U	0.12	J	2.1	J	0.091	J	10	U
Benzo(a)Pyrene	0.93		0.39	J	0.38	U	0.15	J	1.8		0.091	J	2.4		0.94		0.21	J	0.82	J	0.86	J	0.65		1.8		0.34	U	0.12	J	2.1	J	0.091	J	10	U
Benzo(b)fluoranthene	1.2		0.43	J	0.38	U	0.21	J	2.7		0.12	J	4.1		1.4		0.26	J	1.3	J	0.88	J	1.0		2.6		0.34	U	0.14	J	3.5	J	0.11	J	10	U
Benzo(g,h,i)perylene	0.28	J	0.12	J	0.38	U	0.17	J	0.74		0.086	J	0.60		0.26	J	0.084	J	0.29	J	0.35	J	0.43		0.62		0.34	U	0.053	J	0.64		0.35	U	10	U
Benzo(k)fluoranthene	0.54		0.29	J	0.38	U	0.069	J	1.5		0.047	J	0.89	J	0.39	J	0.088	J	0.58	J	0.47	J	0.43	J	1.3	J	0.34	U	0.080	J	1.1	J	0.065	J	10	U
Bis(2-chloroethoxy)methane	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Bis(2-chloroethyl)ether	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Bis(2-chloroisopropyl)ether	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Bis(2-ethylhexyl)phthalate	0.38	U	0.75	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.52		0.36	U	0.38	U	0.37	U	0.340	U	0.36	U	0.36	U	0.35	U	10	U
Butylbenzylphthalate	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Carbazole	0.054	J	0.45	UJ	0.38	U	0.40	U	0.19	J	0.37	U	0.13	J	0.36	UJ	0.36	UJ	0.087	J	0.36	UJ	0.042	J	0.14	J	0.34	U	0.36	UJ	0.1	J	0.35	UJ	10	U
Chrysene	0.94		0.48		0.38	U	0.14	J	1.7		0.12	J	2.5		1.0		0.20	J	0.89		0.84	J	0.53		1.5		0.34	U	0.14	J	2.1		0.081	J	10	U
Dibenzo(a,h)Anthracene	0.38	U	0.45	U	0.38	U	0.40	U	0.27	J	0.37	U	0.088	J	0.044	J	0.36	U	0.056	J	0.053	J	0.38	U	0.069	J	0.34	U	0.36	U	0.077	J	0.35	U	10	U
Dibenzofuran	0.084	J	0.45	UJ	0.38	U	0.40	U	0.21	J	0.37	U	0.064	J	0.36	U	0.36	U	0.071	J	0.36	U	0.38	U	0.066	J	0.34	U	0.36	U	0.075	J	0.35	U	10	U
Diethylphthalate	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Dimethylphthalate	0.38	U	0.45	U	0.38	U	0.40	U	0.38	U	0.37	U	0.38	U	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.37	U	0.34	U	0.36	U	0.36	U	0.35	U	10	U
Di-n-butylphthalate	0.062	J	0.059	J	0.38	U	0.054	J	0.074	J	0.37	U	0.064	J	0.043	J	0.050	J	0.041	J	0.057	J	0.044	J	0.058	J	0.34	U	0.074	J	0.043	J	0.35	UJ	10	U
Di-n-octylphthalate	0.38	U	0.45	U	0.38	U	0.40	U	0.051	J	0.37	U	0.060	J	0.36	U	0.36	U	0.36	U	0.36	U	0.38	U	0.12	J	0.34	U	0.36	U	0.049	J	0.35	U	10	U
Fluoranthene	1.4		0.55		0.38	U	0.16	J	3.0		0.14	J	3.4		1.5		0.40		1.4	J	1.6	J	0.84		2.9		0.34	U	0.18	J	3.6	J	0.14	J	10	U
Fluorene	0.12	J	0.046	J	0.38	U	0.40	U	0.39	J	0.37	U	0.13	J	0.085	J	0.36	UJ	0.16	J	0.063	J	0.38	UJ	0.12	J	0.34	U	0.36	UJ	0.25	J	0.35	UJ	10	U

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	S-8	S-9	S-9a	S-10	S-10a	S-11	S-11	S-12	S-12	S-13	S-13	S-14	S-14	S-15	S-15	S-30	S-30	FB121902
Sample Depth (ft)	A	(11-11.8)	A	(11-11.8)	A	7.5-8	A	4-4.5	A	7-7.5	A	7-7.5	A	7-7.5	A	7-7.5	A	
Sample Date	12/2/2003	12/2/2003	12/2/2003	12/2/2003	12/2/2003	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/23/2002	12/19/2002
Laboratory I.D. number	781763	781764	781765	781767	781768	781772	781773	781774	781775	781776	781777	781778	781779	781780	781781	781782	781783	781406
PARAMETERS (ppm)																Duplicate of S-11	Duplicate of S-12	TRIP BLK
BASE NEUTRAL COMPOUNDS* (Cont.)																		
Hexachlorobenzene	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.36 U	0.36 U	0.35 U	10 U
Hexachlorobutadiene	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.36 UJ	0.36 UJ	0.35 UJ	10 U
Hexachlorocyclopentadiene	0.38 UJ	0.45 UJ	0.38 UJ	0.40 UJ	0.38 UJ	0.37 UJ	0.38 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.38 UJ	0.37 UJ	0.34 U	0.36 UJ	0.36 UJ	0.35 UJ	10 UJ
Hexachloroethane	0.38 UJ	0.45 UJ	0.38 U	0.40 U	0.38 UJ	0.37 U	0.38 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.38 UJ	0.37 UJ	0.34 U	0.36 UJ	0.36 UJ	0.35 UJ	10 UJ
Indeno(1,2,3-cd)pyrene	0.28 J	0.10 J	0.38 U	0.12 J	0.71	0.059 J	0.65	0.24 J	0.079 J	0.31 J	0.34 J	0.24 J	0.6	0.34 U	0.061 J	0.61	0.35 U	10 U
Isophorone	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.36 U	0.36 U	0.35 U	10 U
Naphthalene	0.05 J	0.45 UJ	0.38 U	0.095 J	3.1 J	0.37 U	0.098 J	0.058 J	0.36 UJ	0.075 J	0.04 J	0.38 UJ	0.37 UJ	0.34 U	0.36 UJ	0.1 J	0.35 UJ	10 UJ
Nitrobenzene	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.36 U	0.36 U	0.35 U	10 U
N-Nitroso-Di-N-propylamine	0.38 UJ	0.45 UJ	0.38 U	0.40 U	0.38 UJ	0.37 U	0.38 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.36 UJ	0.38 UJ	0.37 UJ	0.34 U	0.36 UJ	0.36 UJ	0.35 UJ	10 UJ
N-Nitrosodiphenylamine	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.36 U	0.36 U	0.35 U	10 U
Pentachlorophenol	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	0.37 U	0.34 U	0.096 J	2.3 J	0.07 J	10 U
Phenanthrene	0.87 J	0.44 J	0.38 U	0.12 J	2.5 J	0.061 J	1.5 J	0.90 J	0.30 J	1.3 J	0.87 J	0.60 J	2.1 J	0.34 U	0.36 U	0.36 U	0.35 U	10 U
Phenol	0.38 U	0.45 U	0.38 U	0.40 U	0.38 U	0.37 U	0.38 U	0.36 U	0.36 U	0.36 U	0.36 U	0.38 U	5.6	0.34 U	0.21 J	4.9 J	0.16 J	10 U
Pyrene	3.1	1.1	0.38 U	0.26 J	4.3	0.20 J	4.3	2.1	0.41	2.7 J	1.6 J	2.2						
TICs	38.24 J	41.08 J	37 J	53.35 J	45.94 J	44.8 J	38.55 J	47.44 J	26.02 J	35.72 J	36.71 J	56.27 J	35.02 J	38.05 J	32.67 J	38.52 J	30.93 J	30.3 J
Total Semi-VOCs	65.762	66.666	59.8	74.208	87.745	64.324	78.172	73.393	45.67	61.848	61.445	81.647	72.273	58.45	51.584	77.652	49.939	-
PESTICIDES																		
Aldrin	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 U	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 U	0.0037 U	0.0034 U	0.0036 U	0.036 U	0.0035 U	0.10 UJ
Alpha-BHC	0.0038 UJ	0.0045 UJ	0.0038 UJ	0.0040 UJ	0.0038 UJ	0.0037 UJ	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 U
Beta-BHC	0.0038 UJ	0.0045 UJ	0.0038 UJ	0.0040 UJ	0.0038 UJ	0.0037 U	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 U	0.0037 U	0.0034 U	0.0036 U	0.036 U	0.0035 U	0.10 U
Chlordane	0.0076 U	0.0090 U	0.0076 U	0.0079 U	0.0077 U	0.0074 U	0.0076 U	0.0072 U	0.0072 U	0.0072 U	0.0072 U	0.0076 U	0.0073 U	0.0068 U	0.0072 U	0.072 U	0.0069 U	0.20 U
Delta-BHC	0.0038 UJ	0.0045 UJ	0.0038 UJ	0.0040 UJ	0.0038 UJ	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Dieldrin	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 U	0.036 UJ	0.0035 UJ	0.10 U
Endosulfan I	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 U	0.036 UJ	0.0035 UJ	0.10 U
Endosulfan II	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Endosulfan Sulfate	0.0038 UJ	0.0045 UJ	0.0038 U	0.0040 U	0.010 J	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Endrin	0.0038 U	0.0045 U	0.0038 UJ	0.0040 UJ	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Endrin Aldehyde	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0067 J	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Endrin Ketone	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.036 UJ	0.0035 UJ	0.10 UJ
Gamma-BHC	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 U	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 U	0.0037 U	0.0034 U	0.0036 U	0.036 U	0.0035 U	0.10 U
Heptachlor	0.0038 UJ	0.0045 UJ	0.0038 U	0.0040 U	0.0038 UJ	0.0037 U	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 U	0.0037 U	0.0034 U	0.0036 U	0.036 U	0.0035 U	0.10 U
Heptachlor Epoxide	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 U	0.0038 U	0.0036 U	0.0036 U	0.0036 U	0.0036 U	0.0038 U	0.0037 U	0.0034 UJ	0.0036 U	0.036 UJ	0.0035 UJ	0.10 UJ
Methoxychlor	0.0038 UJ	0.0045 UJ	0.0038 UJ	0.0040 UJ	0.0038 UJ	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 U	0.38 J	0.0035 UJ	0.10 UJ
P,P'-DDD	0.0038 U	0.0045 U	0.0038 UJ	0.0040 UJ	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 U	0.036 UJ	0.0035 UJ	0.10 UJ
P,P'-DDE	0.0038 U	0.0045 U	0.0038 U	0.0040 U	0.0038 U	0.0037 UJ	0.0038 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.95 J	0.0035 UJ	0.10 UJ
P,P'-DDT	0.0038 UJ	0.0045 UJ	0.0038 UJ	0.0040 UJ	0.0038 UJ	0.0037 UJ	0.0038 UJ	0.0092 J	0.0036 UJ	0.0036 UJ	0.0036 UJ	0.0038 UJ	0.0037 UJ	0.0034 UJ	0.0036 UJ	0.36 U	0.035 U	1.0 U
Toxaphene	0.038 U	0.045 U	0.038 U	0.040 U	0.038 U	0.037 U	0.038 U	0.036 U	0.036 U	0.036 U	0.036 U	0.038 U	0.037 U	0.034 U	0.036 U			
PCB																		
Arochlor-1016	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1221	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1232	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1242	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1248	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.019 U	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1254	0.019 U	0.023 U	0.019 U	0.020 U	0.019 U	0.019 U	0.038 J	0.018 U	0.018 U	0.018 U	0.018 U	0.019 U	0.018 U	0.017 U	0.018 U	0.018 U	0.017 U	0.50 U
Arochlor-1260	0.019 UJ	0.023 UJ	0.019 UJ	0.020 UJ	0.019 UJ	0.019 U												

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
"=Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	S-8 (11-11.8) A		S-9 (11-11.8) A		S-9 (11-11.8) A		S-10 (11-11.8) A		S-10 (11-11.8) A		S-11 7.5-8.5		S-11 A		S-12 4-4.5		S-12 A		S-13 7.5-8.5		S-13 A		S-14 7.5-8		S-14 A		S-15 7.5-8		S-15 A		S-30 7.5-8.5		S-30 A		FB121902	
Sample Depth (ft)																																		
Sample Date	12/2/2002		12/2/2002		12/2/2002		12/2/2002		12/2/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/23/2002		12/19/2002	
Lab Sample ID	767853		767854		767855		767856		767857		767775		767776		767777		767778		767779		767780		767781		767782		767783		767784		Duplicate S-13		Duplicate S-30		774065	
Matrix	Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil		Soil	
Units	ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm		ppm	
PARAMETERS (ppm)																																		
METALS																																		
Aluminum	11,000		17,000		15,000		21,000		10,000		9,900		9,800		8,900		9,400		6,700		9,700		7,300		8,200		19,000		13,000		9,300		5,500		2,000	U
Antimony	2.3	UJ	2.7	UJ	2.3	UJ	2.4	UJ	2.3	UJ	2.2	UJ	2.3	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.2	UJ	2.3	UJ	16	J	2.0	UJ	2.2	UJ	2.2	UJ	2.1	UJ	20	U
Arsenic	9.2		6.7		2.3	U	2.4	U	11		2.2	U	5.5		2.4		2.7		2.8		2.7		3.5		3.9		2.0	U	4.5		2.9		2.1	U	20	U
Barium	990	J	160	J	140	J	160	J	180	J	79		400		110		85		100		86		180		110		210		140		120		46		100	U
Beryllium	0.68	U	0.86		0.88		1.3		0.69	U	0.67	U	0.68	U	0.65	U	0.65	U	0.65	U	0.65	U	0.68	U	0.66	U	0.90		0.66		0.65	U	0.62	U	6	U
Cadmium	7.5		0.81	U	0.68	U	0.71	U	1.1		0.67	U	2.5		0.65	U	0.76		0.65	U	0.65	U	0.68	U	0.66	U	0.61	U	0.65	U	0.65	U	0.62	U	6	U
Calcium		R		R		R		R		R	8,700		18,000		42,000		12,000		17,000		5,500		21,000		21,000		1,600		12,000		13,000		5,200		10,000	U
Chromium	39		40		33		39		27		25		32		27		28		20		29		16		25		37		29		25		16		50	U
Cobalt	6.8		8.3		12		14		8.1		7.6		8.3		7.2		6.9		6.4		7.0		5.1		6.2		18		9.7		7.5		4.6		25	U
Copper	94	J	43	J	44	J	53	J	110	J	20		83		62		35		25		28		22		39		6.4		51		29		13		50	U
Iron	32,000	J	26,000	J	25,000	J	29,000	J	40,000	J	16,000		23,000		20,000		16,000		15,000		19,000		15,000		17,000		41,000		23,000		18,000		12,000		2,000	U
Lead	1,500	J	140	J	11	J	110	J	500	J	21	J	370	J	160	J	100	J	89	J	50	J	59	J	170	J	5.1	UJ	130	J	110	J	15	J	50	U
Magnesium	5,900	J	5,900	J	5,400	J	6,600	J	8,300	J	6,600	J	5,500	J	5,600	J	5,400	J	9,500	J	3,000	J	6,200	J	7,400	J	9,300	J	5,300	J	5,200	J	2,300	J	5,000	U
Manganese	330		300		360		380		370		280	J	340	J	310	J	270	J	230	J	280	J	390	J	220	J	160	J	350	J	510	J	230	J	100	U
Mercury	0.48		0.20		0.16	U	0.17	U	0.17		0.16	U	0.46		0.15	U	0.15	U	0.15	U	0.29		0.16	U	0.26		0.14	U	0.15	U	0.17		0.15	U	0.85	U
Nickel	38		21		25		31		22		14		22		17		24		18		14		14		16		36		27		21		13		50	U
Potassium	3,000	J	2,500	J	5,600	J	6,400	J	3,700	J	3,100	J	2,850	J	2,100	J	2,400	J	1,800	J	2,600	J	1,600	J	2,700	J	15,000	J	5,600	J	3,200	J	1,500	J	5,000	U
Selenium	2.8		2.7	U	2.3	U	2.4	U	3.0		2.2	U	2.3	U	2.2	U	2.2	U	2.2	U	2.2	U	2.3	U	2.2	U	2.0	U	2.2	U	2.2	U	2.1	U	20	U
Silver	2.8	U	3.4	U	2.8	U	3.0	U	2.9	U	2.8	U	2.8	U	2.7	U	2.7	U	2.7	U	2.7	U	2.8	U	2.7	U	5.8		2.7	U	2.7	U	2.6	U	25	U
Sodium	1,000		920		570	U	600	U	570	U	560	U	570	U	540	U	540	U	540	U	540	U	570	U	550	U	510	U	540	U	540	U	520	U	5,000	U
Thallium	1.4	U	1.6	U	1.4	U	1.4	U	1.4	U	1.3	U	1.4	U	1.3	U	1.3	U	1.3	U	1.3	U	1.4	U	1.3	U	2.2		1.3	U	1.3	U	1.2	U	12	U
Vanadium	43		46		43		48		34		30	J	40	J	37	J	29	J	36	J	41	J	31	J	34	J	61	J	33	J	32	J	19	J	100	U
Zinc	710	J	110	J	52	J	79	J	300	J	54	J	370	J	110	J	84	J	79	J	74	J	56	J	110	J	110	J	220	J	94	J	34	J	100	U
CYANIDE	0.33		0.67		0.38		4.10		5.80		0.28	U	0.28	U	1.1		0.42		0.45		0.35		0.33		0.44		0.25	U	0.27	U	0.3		0.27		10	U

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
** =Value is for total Xylenes
A =Composite sample
R=Rejected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft.) / Sample Date / Laboratory ID number / PARAMETERS (ppm)	TB 12/19/2002 76407 µg/L		FB122002 12/20/2002 75686 µg/L		TB 12/20/2002 75686 µg/L		FB122302 12/23/2002 76781 µg/L		TB 12/23/2002 76782 µg/L		FB10203 1/2/2003 76187 µg/L		TB 1/2/2003 76188 µg/L		TAGM 4046 Soil Cleanup Objectives / Eastern USA Background (March 6, 2002)
VOLATILE ORGANIC COMPOUNDS*															
1,1,1-Trichloroethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.8
1,1,2,2-Tetrachloroethane	5.0	U	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	0.6
1,1,2-Trichloroethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
1,1-Dichloroethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.2
1,1-Dichloroethene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.4
1,2,4-Trichlorobenzene	1.0	U	1.0	UJ	1.0	UJ	1.0	U	1.0	U	1.0	UJ	1.0	U	3.4
1,2-Dibromo-3-chloropropane	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	1.0	UJ	N/A
1,2-Dibromoethane	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
1,2-Dichlorobenzene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	7.9
1,2-Dichloroethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.1
1,2-Dichloropropane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
1,3-Dichlorobenzene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	1.6
1,4-Dichlorobenzene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	8.5
2-Butanone	25	UJ	25	UJ	25	U	25	UJ	25	UJ	25	U	25	U	0.3
2-Hexanone	20	U	20	UJ	20	U	20	UJ	20	UJ	20	U	20	U	N/A
4-Methyl-2-Pentanone	20	U	20	UJ	20	U	20	U	20	U	20	U	20	U	1
Acetone	20	U	20	UJ	20	UJ		R		R	20	U	20	UJ	0.2
Benzene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	0.06
Bromodichloromethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	UJ	5.0	UJ	N/A
Bromoform	5.0	UJ	5.0	UJ	5.0	UJ	5.0	U	5.0	U	5.0	UJ	5.0	UJ	N/A
Bromomethane	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Carbon Disulfide	5.0	U	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	2.7
Carbon Tetrachloride	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.6
Chlorobenzene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	1.7
Chloroethane	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	1.9
Chloroform	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.3
Chloromethane	5.0	UJ	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
cis-1,2-Dichloroethene	5.0	UJ	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	N/A
cis-1,3-Dichloropropene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Dibromochloromethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Dichlorodifluoromethane	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Ethylbenzene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	5.5
Isopropylbenzene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
p&m-Xylenes	2.0	U	2.0	UJ	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	1.2**
Methylene Chloride	1.4	J	1.6	J	5.0	U	5.0	U	5.0	U	1.8	J	1.5	J	0.1
Methyl-t-butyl ether	1.0	U	1.0	UJ	1.0	U	1.0	UJ	1.0	UJ	1.0	U	1.0	U	N/A
o-Xylene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2**
Styrene	1.0	U	1.0	UJ	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
Tetrachloroethene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	1.4
Toluene	1.0	U	1.0	UJ	1.0	U	3.4		2.2		3.4	U	1.0	U	1.5
trans-1,2-Dichloroethene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.3
trans-1,3-Dichloropropene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Trichloroethene	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.7
Trichlorofluoromethane	5.0	U	5.0	UJ	5.0	U	5.0	UJ	5.0	UJ	5.0	U	5.0	U	N/A
Vinyl Chloride	5.0	U	5.0	UJ	5.0	U	5.0	U	5.0	U	5.0	U	5.0	U	0.2
TICs	ND		ND		ND		ND		ND		ND		ND		
Total VOCs	-		-		-		-		-		-		-		< 10

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation	TB	FB122002	TB	FB122302	TB	FB10203	TB	TAGM 4046
Sample Depth (ft.)								Soil Cleanup
Sample Date	12/19/2002	12/20/2002	12/20/2002	12/23/2002	12/23/2002	1/2/2003	1/2/2003	Objectives*
Laboratory ID number	78140	78686	78686	78761	78792	79187	79186	Eastern USA
PARAMETERS (ppm)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	Background (March 6, 2002)
BASE NEUTRAL COMPOUNDS*								
2,4,5-Trichlorophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.1
2,4,6-Trichlorophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
2,4-Dichlorophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.4
2,4-Dimethylphenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
2,4-Dinitrophenol	N/A	10 U	N/A	10 UJ	N/A	10 U	N/A	0.200 or MDL
2,4-Dinitrotoluene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
2,6-Dinitrotoluene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	1.0
2-Chloronaphthalene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
2-Chlorophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.8
2-Methylnaphthalene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	36.4
2-Methylphenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.100 or MDL
2-Nitroaniline	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.430 or MDL
2-Nitrophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.330 or MDL
3&4-Methylphenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	
3,3'-Dichlorobenzidine	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
3-Nitroaniline	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.500 or MDL
4,6-Dinitro-2-methylphenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
4-Bromophenyl-phenyl ether	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
4-Chloro-3-methylphenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.240 or MDL
4-Chloroaniline	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.220 or MDL
4-Chlorophenyl-phenylether	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
4-Nitroaniline	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
4-Nitrophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.100 or MDL
Acenaphthene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Acenaphthylene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	41
Anthracene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Benzo(a)Anthracene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.224 or MDL
Benzo(a)Pyrene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.061 or MDL
Benzo(b)fluoranthene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	1.1
Benzo(g,h,I)perylene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Benzo(k)fluoranthene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	1.1
Bis(2-chloroethoxy)methane	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Bis(2-chloroethyl)ether	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Bis(2-chloroisopropyl)ether	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Bis(2-ethylhexyl)phthalate	N/A	1.4 J	N/A	10 U	N/A	10 U	N/A	50
Butylbenzylphthalate	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Carbazole	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Chrysene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.4
Dibenzo(a,h)Anthracene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.014 or MDL
Dibenzofuran	N/A	10 U	N/A	10 U	N/A	10 U	N/A	6.2
Diethylphthalate	N/A	10 U	N/A	10 U	N/A	10 U	N/A	7.1
Dimethylphthalate	N/A	10 U	N/A	10 U	N/A	10 U	N/A	2.0
Di-n-butylphthalate	N/A	10 U	N/A	10 U	N/A	10 U	N/A	8.1
Di-n-octylphthalate	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Fluoranthene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50
Fluorene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft) / Sample Date / Laboratory ID Number / PARAMETERS (ppm)	TB	FB122002	TB	FB122302	TB	FB10203	TB	TAGM 4046 Soil Cleanup Objectives (1993) Eastern USA Background (March 6, 2002)
	12/19/2002 E754072 µg/L	12/20/2002 E75688 µg/L	12/20/2002 75688 µg/L	12/23/2002 E75781 µg/L	12/23/2002 E76752 µg/L	1/2/2003 E76187 µg/L	1/2/2003 E76188 µg/L	
BASE NEUTRAL COMPOUNDS* (Cont.)								
Hexachlorobenzene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.41
Hexachlorobutadiene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Hexachlorocyclopentadiene	N/A	10 UJ	N/A	11 UJ	N/A	11 UJ	N/A	N/A
Hexachloroethane	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Indeno(1,2,3-cd)pyrene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	3.2
Isophorone	N/A	10 U	N/A	10 U	N/A	10 U	N/A	4.40
Naphthalene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	13.0
Nitrobenzene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.200 or MDL
N-Nitroso-Di-N-propylamine	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
N-Nitrosodiphenylamine	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A
Pentachlorophenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	1.0 or MDL
Phenanthrene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50.0
Phenol	N/A	10 U	N/A	10 U	N/A	10 U	N/A	0.03 or MDL
Pyrene	N/A	10 U	N/A	10 U	N/A	10 U	N/A	50.0
TICs	-	45.8 J	-	196.4 J	-	85.7 J	-	< 500
Total Semi-VOCs		-		-		-		
PESTICIDES								
Aldrin	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	0.041
Alpha-BHC	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.11
Beta-BHC	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.2
Chlordane	N/A	0.20 U	N/A	0.20 UJ	N/A	0.20 U	N/A	0.54
Delta-BHC	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.3
Dieldrin	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	0.044
Endosulfan I	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	0.9
Endosulfan II	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	0.9
Endosulfan Sulfate	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	1.0
Endrin	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10
Endrin Aldehyde	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	N/A
Endrin Ketone	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 U	N/A	N/A
Gamma-BHC	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 U	N/A	0.06
Heptachlor	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 U	N/A	0.10
Heptachlor Epoxide	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	0.02
Methoxychlor	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 U	N/A	**
P,P'-DDD	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 UJ	N/A	2.9
P,P'-DDE	N/A	0.10 U	N/A	0.10 UJ	N/A	0.10 U	N/A	2.1
P,P'-DDT	N/A	0.10 UJ	N/A	0.10 UJ	N/A	0.10 UJ	N/A	2.1
Toxaphene	N/A	1.0 U	N/A	1.0 UJ	N/A	1.0 U	N/A	N/A
PCB								
Arochlor-1016	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1221	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1232	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1242	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1248	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1254	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)
Arochlor-1260	N/A	0.50 U	N/A	0.50 UJ	N/A	0.050 U	N/A	1 (surface)/10(subsurface)

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 2
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Street"
Hunts Point, Bronx, New York

Sample Designation / Sample Depth (ft.) / Sample Date / Laboratory ID Number / PARAMETERS (ppm)	TB 12/19/2002 75407 ug/L	FB122002 12/20/2002 75688 ug/L	TB 12/20/2002 75686 ug/L	FB122302 12/23/2002 75781 ug/L	TB 12/23/2002 75782 ug/L	FB10203 1/2/2003 76187 ug/L	TB 1/2/20031 76188 ug/L	TAGM 4046 Soil Cleanup Objectives / Eastern USA Background (March 6, 2002)
METALS								
Aluminum	N/A	2,000 U	N/A	180 U	N/A	2,000 U	N/A	SB / 33000
Antimony	N/A	20 U	N/A	15 U	N/A	20 U	N/A	SB / NA
Arsenic	N/A	20 U	N/A	7.5 U	N/A	20 U	N/A	7.5 or SB / 3-12
Barium	N/A	100 U	N/A	50 U	N/A	100 U	N/A	300 or SB / 15-600
Beryllium	N/A	6.0 U	N/A	4.0 U	N/A	6.0 U	N/A	0.16 or SB / 0-1.75
Cadmium	N/A	6.0 U	N/A	3.5 U	N/A	6.0 U	N/A	1 or SB / 0.1-1
Calcium	N/A	10,000 U	N/A	2,000 U	N/A	10,000 U	N/A	SB / 130-35000
Chromium	N/A	50 U	N/A	50 U	N/A	50 U	N/A	10 or SB / 1.5-40
Cobalt	N/A	25 U	N/A	20 U	N/A	25 U	N/A	30 or SB / 2.5-60
Copper	N/A	50 U	N/A	50 U	N/A	50 U	N/A	25 or SB / 1-50
Iron	N/A	2,000 U	N/A	280 U	N/A	2,000 U	N/A	2000 or SB / 2000-550000
Lead	N/A	50 U	N/A	5.0 U	N/A	50.0 U	N/A	SB / 200-500
Magnesium	N/A	5,000 U	N/A	2,000 U	N/A	5,000 U	N/A	SB / 100-5000
Manganese	N/A	100 U	N/A	40 U	N/A	100 U	N/A	SB / 50-5000
Mercury	N/A	0.85 U	N/A	0.70 U	N/A	0.85 U	N/A	0.1 / 0.001-0.2
Nickel	N/A	50 U	N/A	50 U	N/A	50 U	N/A	13 or SB / 0.5-25
Potassium	N/A	5,000 U	N/A	5,000 U	N/A	5,000 U	N/A	SB / 8500-43000
Selenium	N/A	20 U	N/A	40 U	N/A	20 U	N/A	2 or SB / 0.1-3.9
Silver	N/A	25 U	N/A	20 U	N/A	25 U	N/A	SB / NA
Sodium	N/A	5,000 U	N/A	5,000 U	N/A	5,000 U	N/A	SB / 6000-8000
Thallium	N/A	12 U	N/A	10 U	N/A	12 U	N/A	SB / NA
Vanadium	N/A	100 U	N/A	50 U	N/A	100 U	N/A	150 or SB / 1-300
Zinc	N/A	100 U	N/A	50 U	N/A	100 U	N/A	20 or SB / 9-50
CYANIDE	N/A	10 U	N/A	10 U	N/A	10 U	N/A	N/A

NA=Not analyzed
* =As per TAGM #4046, total VOCs <10 ppm, Total Semi-VOCs <500 ppm, and Individual Semi-VOCs <50 ppm
**=Value is for total Xylenes
A =Composite sample
R=Rejected
U=Not detected

Table 3
Groundwater Analytical Data - Comparison to Limitations for Effluent to Sanitary or Combined Sewers
October 2002
Iroquois Pipeline - Hunt's Point
Bronx, NY

Sample Number / Sample Date / Units	Daily Limit	Units	Monthly Limit	Groundwater Effluent Limitations µg/l	MW-A 10/2/2002 µg/l	MW-1 10/3/2002 µg/l	MW-2 10/4/2002 µg/l	MW-3 10/2/2002 µg/l	MW-4 10/2/2002 µg/l	MW-5 10/3/2002 µg/l	MW-11 10/1/2002 µg/l	MW-12 10/4/2002 µg/l
Non-polar material	50	mg/l	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA
pH (range)	5-11	SU's	NA	6.5-8.5*,**	R	R	R	R	R	R	R	R
Benzene	134	ppb	57	1	0.49 U	5800	4.3	610	0.49 U	5800	7.8	0.49 U
Ethylbenzene	380	ppb	142	5***	0.63 U	710	0.63 U	280	0.63 U	1500	2.6	0.63 U
Toluene	74	ppb	28	5***	0.79 U	490	0.79 U	100	0.79 U	1700	4.7	0.79 U
Xylenes (Total)	74	ppb	28	5*,****	1.69 U	810	1.69 U	600	1.69 U	1660	14	1.69 U
Temperature	<150	°F	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.69□	mg/l	NA	10	2 U	2 U	66	2.2	2 U	6	2 U	2.3
Chromium (VI)	5	mg/l	NA	100	R	R	R	R	R	R	R	NA
Copper	5	mg/l	NA	1000	25 U	25 U	25 U	25 U	25 U	25 U	59	180
Lead	2	mg/l	NA	50	5 U	5.3	5 U	6.3	11	11	30	330
Mercury	0.05	mg/l	NA	1.4	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.29
Nickel	3	mg/l	NA	200	25 U	25 U	25 U	25 U	25 U	25 U	38	110
Zinc	5	mg/l	NA	5000	25 U	25 U	120	29	25 U	62	74	520
Flash Point	>140	degrees F	NA	NC	>141	>141	>141	>141	>141	>141	>141	NA
Total Suspended Solids	No Limit	mg/l	NA	NC	6000 J	72,000 J	59,000 J	8,800 J	84,000 J	150,000 J	370,000 J	NA
PCB's (Total)	1□	ppb	NA	0.09	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U	0.05U
Perc (Tetrachloroethylene)	20	ppb	NA	5***	0.6 U	12 U	0.6 U	12 U	0.6 U	12 U	0.6 U	0.6 U
MTBE (Methyl-Tert-Butyl-Ether)	10	ppb	10	NC	0.59 U	12 U	6.2	12 U	0.59 U	12 U	0.59 U	0.59 U
Naphthalene	47□	ppb	19	NC	0.47 U	6800	0.47 U	1400	0.47 U	5900	180	3.7

Notes:
"1" - Unless otherwise noted
"U" = Compound was analyzed but not detected
"NA" = Compound was not analyzed
"NC" = No criteria established for that compound
"J" = Indicates an estimated value
"R" = Rejected during data validation
"□ " = Composite sample type
"*" = pH in Standard Units
"**" = pH shall not be lower than 6.5 or the pH of the natural groundwater, whichever is lower, nor shall be greater than 8.5 or the pH of the natural groundwater, whichever is greater
"***" = Groundwater Effluent Limitation not available for compound; Groundwater Quality Standard was used
"****" = 5 µg/l standard for each Xylene isomer
Samples collected were grab samples.
"PCB" = Polychlorinated Biphenyl
"µg/l" = micrograms per liter
"mg/l" = milligrams per liter
"SU" = Standard Units
"ppb" = parts per billion
"°F" = Degrees in Fahrenheit
BOLD indicates an exceedance of the Daily Effluent Limit or Monthly Effluent Limit
Refer to groundwater sample collection logs (Appendix C) for pH and temperature measurements
Results for PCBs represent the detection limits of individual arochlors.

5/15/2003

Table 3
Groundwater Analytical Data - Comparison to Limitations for Effluent to Sanitary or Combined Sewers
October 2002
Iroquois Pipeline - Hunt's Point
Bronx, NY

Sample Number / Sample Date / Units	Daily Limit	Units	Monthly Limit	Groundwater Effluent Limitations "pg/l"	MW-13 10/1/2002 ug/l	FB 100102 10/1/2002 ug/l	TB 100102 10/1/2002 ug/l	FB 100202 10/2/2002 ug/l	TB 100202 10/2/2002 ug/l	FB 100305 10/3/2002 ug/l	Trip Blk 10/3/2002 ug/l	FB 100402 10/4/2002 ug/l
Non-polar material	50	mg/l	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA
pH (range)	5-11	SU's	NA	6.5-8.5*,**	R	R	NA	R	NA	R	NA	R
Benzene	134	ppb	57	1	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U	0.49 U
Ethylbenzene	380	ppb	142	5***	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U	0.63 U
Toluene	74	ppb	28	5***	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U	0.79 U
Xylenes (Total)	74	ppb	28	5*,****	1.69 U	1.69 U	1.69 U	1.69 U	1.69 U	1.69 U	1.69 U	1.69 U
Temperature	<150	°F	NA	NC	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	0.69□	mg/l	NA	10	2 U	2 U	NA	2 U	NA	2 U	NA	2 U
Chromium (VI)	5	mg/l	NA	100	R	R	NA	R	NA	R	NA	R
Copper	5	mg/l	NA	1000	25 U	25 U	NA	25 U	NA	25 U	NA	25 U
Lead	2	mg/l	NA	50	7.3	5 U	NA	5 U	NA	5 U	NA	5 U
Mercury	0.05	mg/l	NA	1.4	0.2 U	0.2 U	NA	0.2 U	NA	0.2 U	NA	0.2 U
Nickel	3	mg/l	NA	200	25 U	25 U	NA	25 U	NA	25 U	NA	25 U
Zinc	5	mg/l	NA	5000	25 U	25 U	NA	25 U	NA	25 U	NA	25 U
Flash Point	>140	degrees F	NA	NC	>141	>141	NA	>141	NA	>141	NA	>141
Total Suspended Solids	No Limit	mg/l	NA	NC	28,000	4,000 UJ	NA	4,000 UJ	NA	4,000 UJ	NA	4,000 UJ
PCB's (Total)	1□	ppb	NA	0.09	0.05U	0.05U	NA	0.05U	NA	0.05U	NA	0.05U
Perc (Tetrachloroethylene)	20	ppb	NA	5***	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U	0.6 U
MTBE (Methyl-Tert-Butyl-Ether)	10	ppb	10	NC	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U	0.59 U
Naphthalene	47□	ppb	19	NC	0.47 U	0.47 U	NA	0.47 U	NA	1.4	NA	0.47 U

Notes:
"1" - Unless otherwise noted
"U" = Compound was analyzed but not detected
"NA" = Compound was not analyzed
"NC" = No criteria established for that compound
"J" = Indicates an estimated value
"R" = Rejected during data validation
"□ " = Composite sample type
"**" = pH in Standard Units
"**** = pH shall not be lower than 6.5 or the pH of the natural groundwater, whichever is lower, nor shall be greater than 8.5 or the pH of the natural groundwater, whichever is greater
"***" = Groundwater Effluent Limitation not available for compound; Groundwater Quality Standard was used
"****** = 5 µg/l standard for each Xylene isomer
Samples collected were grab samples.
"PCB" = Polychlorinated Biphenyl
"µg/l" = micrograms per liter
"mg/l" = milligrams per liter
"SU" = Standard Units
"ppb" = parts per billion
"°F" = Degrees in Fahrenheit
BOLD indicates an exceedance of the Daily Effluent Limit or Monthly Effluent Limit
Refer to groundwater sample collection logs (Appendix C) for pH and temperature measurements
Results for PCBs represent the detection limits of individual arochlors.

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-6	SS-7	SS-8	SS-10	SS-11	SS-12	SS-12B(D)	SS-14	SS-14B	SS-14C	SS-15	SS-16	SS-17	SS-18
Sample Depth (ft.)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date	3/3/2003	3/3/2003	3/10/2003	3/10/2003	3/3/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/3/2003	3/3/2003	3/10/2003
Laboratory ID number	79532	79534	79956	79958	79535	79955	79954 (Duplicate)	79960	79961 (MS)	79962 (MSD)	79959	79533	79536	79957
PARAMETERS (ppm)														
VOLATILE ORGANIC COMPOUNDS*														
1,1,1-Trichloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,1,2,2-Tetrachloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,1,2-Trichloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,1-Dichloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,1-Dichloroethene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,2,4-Trichlorobenzene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
1,2-Dibromo-3-chloropropane	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
1,2-Dibromoethane	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
1,2-Dichlorobenzene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,2-Dichloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,2-Dichloropropane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,3-Dichlorobenzene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
1,4-Dichlorobenzene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
2-Butanone	0.036 U	0.032 U	0.041 U	0.028 U	0.029 U	0.031 U	0.030 U	0.030 U	0.030 U	0.035 U	0.028 U	0.032 U	0.040 U	0.028 U
2-Hexanone	0.029 U	0.026 U	0.033 U	0.022 U	0.023 U	0.025 U	0.024 U	0.024 U	0.024 U	0.028 U	0.022 U	0.025 U	0.032 U	0.022 U
4-Methyl-2-Pentanone	0.029 U	0.026 U	0.033 U	0.022 U	0.023 U	0.025 U	0.024 U	0.024 U	0.024 U	0.028 U	0.022 U	0.025 U	0.032 U	0.022 U
Acetone	0.029 U	0.026 U	0.057	0.053	0.023 U	0.025 U	0.024 U	0.024 U	0.024 U	0.028 U	0.022 U	0.025 U	0.032 U	0.022 U
Benzene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0017	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
Bromodichloromethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Bromoform	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Bromomethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Carbon Disulfide	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Carbon Tetrachloride	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Chlorobenzene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Chloroethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Chloroform	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Chloromethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
cis-1,2-Dichloroethene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
cis-1,3-Dichloropropene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Dibromochloromethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Dichlorodifluoromethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Ethylbenzene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0017	0.0011 U	0.0013 U	0.0016 U	0.0011 U
Isopropylbenzene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
p&m-Xylenes	0.0029 U	0.0026 U	0.0033 U	0.0022 U	0.0023 U	0.0025 U	0.0024 U	0.0024 U	0.0024 U	0.0026 J	0.0022 U	0.0025 U	0.0032 U	0.0022 U
Methylene Chloride	0.011 B	0.013 B	0.0088 B	0.0058 B	0.012 B	0.0070 B	0.0073 B	0.0065 B	0.0062 B	0.0077 B	0.0047 B	0.013 B	0.013 B	0.0057 B
Methyl-t-butyl ether	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
o-Xylene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
Styrene	0.0014 U	0.0013 U	0.0016 U	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0014 U	0.0011 U	0.0013 U	0.0016 U	0.0011 U
Tetrachloroethene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Toluene	0.0014 U	0.0013 U	0.0022	0.0011 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0023	0.0011 U	0.0013 U	0.0016 U	0.0011 U
trans-1,2-Dichloroethene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0058 U	0.0063 U	0.0079 U	0.0056 U
trans-1,3-Dichloropropene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Trichloroethene	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Trichlorofluoromethane	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
Vinyl Chloride	0.0072 U	0.0065 U	0.0082 U	0.0056 U	0.0058 U	0.0062 U	0.0061 U	0.0061 U	0.0060 U	0.0069 U	0.0056 U	0.0063 U	0.0079 U	0.0056 U
TICs	0.0124 J	0.0088 JB	0.0166 JB	0.0202 JB	0.011 JB	0.0052 JB	0	0	0	0.0578 J	0	0.0135 J	0.0253 JB	0.0047 J
Total VOCs	0.011	0.013	0.068	0.0588	0.012	0.007	0.009	0.0065	0.0062	0.0143	0.0047	0.013	0.013	0.0057

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-6		SS-7		SS-8		SS-10		SS-11		SS-12		SS-12B(D)		SS-14		SS-14B		SS-14C		SS-15		SS-16		SS-17		SS-18	
Sample Depth (ft.)	0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5		0-0.5	
Sample Date	3/3/2003		3/3/2003		3/10/2003		3/10/2003		3/3/2003		3/10/2003		3/10/2003		3/10/2003		3/10/2003		3/10/2003		3/10/2003		3/3/2003		3/3/2003		3/10/2003	
Laboratory ID number	79532		79534		79956		79958		79535		79955		79954 (Duplicate)		79960		79961 (MS)		79962 (MSD)		79959		79533		79536		79957	
PARAMETERS (ppm)																												
BASE NEUTRAL COMPOUNDS*																												
2,4,5-Trichlorophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,4,6-Trichlorophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,4-Dichlorophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,4-Dimethylphenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,4-Dinitrophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,4-Dinitrotoluene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2,6-Dinitrotoluene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2-Chloronaphthalene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2-Chlorophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2-Methylnaphthalene	0.17	J	0.95	J	0.18	J	0.28	J	0.39	U	0.82	J	0.46	J	2.8	J	3.0	J	3.7	J	0.67	J	0.17	J	0.60	J	0.34	J
2-Methylphenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2-Nitroaniline	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
2-Nitrophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
3&4-Methylphenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
3,3'-Dichlorobenzidine	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
3-Nitroaniline	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4,6-Dinitro-2-methylphenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Bromophenyl-phenyl ether	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Chloro-3-methylphenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Chloroaniline	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Chlorophenyl-phenylether	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Nitroaniline	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
4-Nitrophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Acenaphthene	0.25	J	6.9	J	0.70	J	0.59	J	0.39	U	0.84	J	0.26	J	1.4	J	1.7	J	1.9	J	0.36	J	0.64	J	0.42	J	0.23	J
Acenaphthylene	0.41	J	1.8	J	0.95	J	0.96	J	0.071	J	1.8		1.7		4.9		5.1		5.8		3.1		0.20	J	1.9	J	3.8	J
Anthracene	0.70		14		2.2		1.4	J	0.39	U	3.6		1.8		5.8		6.8		6.9		2.4		1.5		1.8	J	3.2	
Benzo(a)Anthracene	2.7		39		6.7		3.8		0.22	J	9.9		6.9		11		14		12		8.1		2.9		7.6		13	
Benzo(a)Pyrene	2.9		32		5.3		3.3		0.26	J	8.5		6.8		10		11		11		8.8		2.4		8.3		13	
Benzo(b)fluoranthene	4.3		42		8		5.7		0.39		13		11		13		14		14		13		3.7		9.8		20	
Benzo(g,h,i)perylene	1.3		13		1.3	J	0.95	J	0.19	J	2.4		2.1		2.9	J	4.8	J	4.9	J	2.6		0.84	J	3.0		3.9	
Benzo(k)fluoranthene	2.3		15		3.4		1.6	J	0.14	J	4.9		3.2		5.3		4.7		4.3	J	3.7		0.96	J	3.3		7.8	
Bis(2-chloroethoxy)methane	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Bis(2-chloroethyl)ether	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Bis(2-chloroisopropyl)ether	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Bis(2-ethylhexyl)phthalate	1.4	B	8.7	U	1.6	U	1.9	U	0.11	JB	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	0.47	JB	0.36	JB	1.9	U
Butylbenzylphthalate	0.37	J	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	0.36	J	2.6	U	1.9	U
Carbazole	0.29	J	5.7	J	0.71	J	0.51	J	0.39	U	0.53	J	0.37	J	1.3	J	1.6	J	1.8	J	0.49	J	0.58	J	0.37	J	0.51	J
Chrysene	2.6		37		6.3		3.8		0.22	J	9.6		7.5		12		13		12		8.8		2.6		8.0		13	
Dibenzo(a,h)Anthracene	0.36	J	4.6	J	0.52	J	0.33	J	0.060	J	0.97	J	0.82	J	1.1	J	1.8	J	1.8	J	0.96	J	0.33	J	1.1	J	1.6	J
Dibenzofuran	0.13	J	3.3	J	0.33	J	0.42	J	0.39	U	0.64	J	0.22	J	2.2	J	2.9	J	3.3	J	0.51	J	0.37	J	2.6	U	0.41	J
Diethylphthalate	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Dimethylphthalate	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Di-n-butylphthalate	0.25	JB	8.7	U	1.6	U	1.9	U	0.061	JB	1.2	U	0.14	JB	4.1	U	4.0	U	4.6	U	0.24	J	1.3	U	2.6	U	1.9	U
Di-n-octylphthalate	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Fluoranthene	4.6		72		12		7.1		0.31	J	15		10		21		26		24		13		5.9		10		18	
Fluorene	0.27	J	5.7	J	0.9	J	0.94	J	0.39	U	2.0	J	0.93	J	5.8		6.6		7.5		1.4	J	0.69	J	0.87	J	1.2	J
Hexachlorobenzene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Hexachlorobutadiene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Hexachlorocyclopentadiene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Hexachloroethane	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	0.87	J	2.8		4.2	
Indeno(1,2,3-cd)pyrene	0.99		12	J	1.4	J	0.99	J	0.16	J	2.6		2.2		3.1	J	5.0	J	4.9		2.8		1.3	U	2.6	U	1.9	U
Isophorone	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	0.25	J	0.91	J	0.78	J
Naphthalene	0.25	J	2.3	J	0.31	J	0.41	J	0.39	U	0.76	J	0.58	J	4.2		5.2		4.9		1.4	J	1.3	U	2.6	U	1.9	U
Nitrobenzene	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
N-Nitroso-Di-N-propylamine	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
N-Nitrosodiphenylamine	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Pentachlorophenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Phenanthrene	2.6		51		7.6		5.5		0.12	J	12		6.9		21		25		27		7.2		6.0		7.4		8.7	
Phenol	0.48	U	8.7	U	1.6	U	1.9	U	0.39	U	1.2	U	1.2	U	4.1	U	4.0	U	4.6	U	1.9	U	1.3	U	2.6	U	1.9	U
Pyrene	7.3		77		12		7.9		0.33	J	18		13		25		26		24		16		6.2		13		20	

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-6	SS-7	SS-8	SS-10	SS-11	SS-12	SS-12B(D)	SS-14	SS-14B	SS-14C	SS-15	SS-16	SS-17	SS-18
Sample Depth (ft.)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date	3/3/2003	3/3/2003	3/10/2003	3/10/2003	3/3/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/3/2003	3/3/2003	3/10/2003
Laboratory ID number	79532	79534	79956	79958	79535	79955	79954 (Duplicate)	79960	79961 (MS)	79962 (MSD)	79959	79533	79536	79957
PARAMETERS (ppm)														
Total	36.44	435.25	70.80	46.48	2.64	108.06	76.88	153.80	179.20	175.70	95.53	37.93	81.53	133.67

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-6	SS-7	SS-8	SS-10	SS-11	SS-12	SS-12B(D)	SS-14	SS-14B	SS-14C	SS-15	SS-16	SS-17	SS-18
Sample Depth (ft.)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date	3/3/2003	3/3/2003	3/10/2003	3/10/2003	3/3/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/3/2003	3/3/2003	3/10/2003
Laboratory ID number	79532	79534	79956	79958	79535	79955	79954 (Duplicate)	79960	79961 (MS)	79962 (MSD)	79959	79533	79536	79957
PARAMETERS (ppm)														
METALS														
Aluminum	12,000	8,900	7,800	10,000	3,700	9,500	9,300	9,700	11,000	12,000	10,000	8,100	12,000	8,100
Antimony	2.9 U	2.6 U	3.3 U	2.2 U	2.3 U	2.5 U	2.4 U	2.4 U	2.4 U	2.8 U	2.2 U	2.5 U	3.2 U	2.2 U
Arsenic	9.9	13	7.6	3.4	5.5	7.4	6.1	4.6	6.1	6.1	3.7	7.3	11	6.7
Barium	230	160	98	190	65	130	140	130	220	190	160	270	220	150
Beryllium	0.87 U	0.78 U	0.98 U	0.67 U	0.70 U	0.74 U	0.73 U	0.73 U	0.72 U	0.83 U	0.67 U	0.76 U	0.95 U	0.67 U
Cadmium	2.3	0.93	0.98 U	0.67 U	0.70 U	0.74 U	0.73 U	0.73 U	0.75	0.83 U	0.67 U	1.2	0.95 U	0.67 U
Calcium	11,000	46,000	6,700	8,200	26,000	7,100	3,300	10,000	13,000	9,400	5,400	22,000	6,300	8,500
Chromium	37	27	21	26	5.8 U	30	26	23	29	31	27	27	30	29
Cobalt	10	7.5	8.5	9.0	4.7	8.5	9.3	8.9	9.6	11	9.8	6.9	9.1	21
Copper	120	64	52	40	29	60	78	45	59	57	46	72	61	74
Iron	29,000	59,000	19,000	21,000	8,000	20,000	22,000	20,000	24,000	25,000	21,000	24,000	24,000	24,000
Lead	650	250	160	230	66	190	160	260	760	480	310	320	220	200
Magnesium	5,300	3,700	3,000	5,100	13,000	4,200	3,500	4,700	5,100	5,500	4,600	7,300	5,200	5,900
Manganese	360	360	270	280	99	290	340	300	370	400	320	250	370	270
Mercury	1.2	1.4	0.51	0.18	0.097 U	0.82	0.94	0.33	0.35	0.43	0.39	0.3	1.3	0.53
Nickel	46	23	25	23	11	25	29	22	25	26	24	25	30	100
Potassium	2,700	1,700	2,100	3,300	740	2,500	2,600	2,700	3,100	3,200	3,300	1,600	3,600	2,000
Selenium	2.6 U	2.3 U	3.0 U	2.0 U	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	2.5 U	2.0 U	2.3 U	2.9 U	2.0 U
Silver	3.6 U	3.2 U	4.1 U	2.8 U	2.9 U	3.1 U	3.0 U	3.0 U	3.0 U	3.5 U	2.8 U	3.2 U	4.0 U	2.8 U
Sodium	720 U	650 U	820 U	560 U	580 U	620 U	610 U	610 U	600 U	690 U	560 U	630 U	790 U	560 U
Thallium	1.7 U	1.6 U	2.0 U	1.3 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	1.7 U	1.3 U	1.5 U	1.9 U	1.3 U
Vanadium	100	38	34	35	15	41	40	37	38	42	37	32	45	72
Zinc	760	200	160	190	76	230	200	210	320	320	250	590	290	150
CYANIDE	12	3.7	1.4	1.4	0.4	12.0	16.0	8.3	8.5	8	2.0	0.36	5.3	9.9
PESTICIDES														
Aldrin	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Alpha-BHC	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Beta-BHC	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.015	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0060
Chlordane	0.014 U	0.013 U	0.011 U	0.0057	0.012 U	0.0082 U	0.0081 U	0.0081 U	0.0080 U	0.0093 U	0.0075 U	0.013 U	0.016 U	0.0074 U
Delta-BHC	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Dieldrin	0.0075	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.013	0.0041 U	0.017	0.0076	0.031	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Endosulfan I	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.017	0.0041 U	0.0040 U	0.0092	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Endosulfan II	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Endosulfan Sulfate	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Endrin	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.13	0.0079 U	0.0037 U
Endrin Aldehyde	0.075	0.0065 U	0.0055 U	0.0088	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Endrin Ketone	0.0072 U	0.044	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Gamma-BHC	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Heptachlor	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0064	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Heptachlor Epoxide	0.0072 U	0.0098	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
Methoxychlor	0.0072 U	0.0065 U	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.0046 U	0.0037 U	0.0063 U	0.0079 U	0.0037 U
P,P'-DDD	0.0072 U	0.0065 U	0.0055 U	0.015	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.014	0.0037 U	0.0063 U	0.0079 U	0.0037 U
P,P'-DDE	0.0072 U	0.0079	0.0055 U	0.0037 U	0.0058 U	0.0041 U	0.0041 U	0.0041 U	0.0040 U	0.049	0.059	0.038	0.049	0.045
P,P'-DDT	0.028	0.052	0.054	0.023	0.078	0.059	0.057	0.041	0.014	0.049	0.059	0.038	0.049	0.045
Toxaphene	0.036 U	0.032 U	0.027 U	0.019 U	0.029 U	0.021 U	0.0041 U	0.020 U	0.020 U	0.023 U	0.019 U	0.032 U	0.040 U	0.019 U
PCB														
Arochlor-1016	0.0036 U	0.0032 U	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.0032 U	0.0040 U	0.019 U
Arochlor-1221	0.0036 U	0.0032 U	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.0032 U	0.0040 U	0.019 U
Arochlor-1232	0.0036 U	0.0032 U	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.0032 U	0.0040 U	0.019 U
Arochlor-1242	0.0036 U	0.0032 U	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.025	0.023	0.019 U
Arochlor-1248	0.033	0.0051	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.0032 U	0.0040 U	0.019 U
Arochlor-1254	0.0036 U	0.0032 U	0.027 U	0.019 U	0.0029 U	0.021 U	0.020 U	0.020 U	0.020 U	0.023 U	0.019 U	0.0032 U	0.0040 U	0.019 U
Arochlor-1260	0.066	0.024	0.11	0.019 U	0.0029 U	0.29	0.21	0.64	0.35	1.4	0.090	0.057	0.020	0.087

Notes:

1. NA = Not analyzed.
2. ND = Not detected.
3. D = Analytical result taken from secondary sample dilution.
4. B = Found in blank as well as the sample.
6. U = Indicates compound was analyzed but not detected.
7. RE = Reanalyzed due to surrogate recoveries outside QC limits.
8. MS/MSD = Matrix Spike/Matrix Spike Duplicate.

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-6	SS-7	SS-8	SS-10	SS-11	SS-12	SS-12B(D)	SS-14	SS-14B	SS-14C	SS-15	SS-16	SS-17	SS-18
Sample Depth (ft.)	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5	0-0.5
Sample Date	3/3/2003	3/3/2003	3/10/2003	3/10/2003	3/3/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/10/2003	3/3/2003	3/3/2003	3/10/2003
Laboratory ID number	79532	79534	79956	79958	79535	79955	79954 (Duplicate)	79960	79961 (MS)	79962 (MSD)	79959	79533	79536	79957
PARAMETERS (ppm)														

** = Value is for total Xylenes.

* = As per TAGM #4046, total VOCs < 10 ppm, Total Semi-VOCs < 500 ppm, and Individual Semi-VOCs < 50 ppm.

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-19		FB030303		TB		FB031003		TB		TAGM 4046
Sample Depth (ft.)	0-0.5		-		-		-		-		Soil Cleanup
Sample Date	3/10/2003		3/3/2003		3/3/2003		3/10/2003		3/10/2003		Objectives /
Laboratory ID number	79964		79537		79536		79537		79953		Eastern USA
PARAMETERS (ppm)											Background (March 6, 2002)
VOLATILE ORGANIC COMPOUNDS*											
1,1,1-Trichloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.8
1,1,2,2-Tetrachloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.6
1,1,2-Trichloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
1,1-Dichloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.2
1,1-Dichloroethene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.4
1,2,4-Trichlorobenzene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	3.4
1,2-Dibromo-3-chloropropane	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
1,2-Dibromoethane	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
1,2-Dichlorobenzene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	7.9
1,2-Dichloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.1
1,2-Dichloropropane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
1,3-Dichlorobenzene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	1.6
1,4-Dichlorobenzene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	8.5
2-Butanone	0.028	U	25.0	U	25.0	U	25.0	U	25.0	U	0.3
2-Hexanone	0.022	U	20.0	U	20.0	U	20.0	U	20.0	U	N/A
4-Methyl-2-Pentanone	0.022	U	20.0	U	20.0	U	20.0	U	20.0	U	1
Acetone	0.022	U	20.0	U	20.0	U	20.0	U	20.0	U	0.2
Benzene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	0.06
Bromodichloromethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Bromoform	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Bromomethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Carbon Disulfide	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	2.7
Carbon Tetrachloride	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.6
Chlorobenzene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	1.7
Chloroethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	1.9
Chloroform	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.3
Chloromethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
cis-1,2-Dichloroethene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
cis-1,3-Dichloropropene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Dibromochloromethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Dichlorodifluoromethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Ethylbenzene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	5.5
Isopropylbenzene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
p&m-Xylenes	0.0022	U	2.0	U	2.0	U	2.0	U	2.0	U	1.2**
Methylene Chloride	0.0071	B	1.5	J	1.8	J	1.4	J	1.2	J	0.1
Methyl-t-butyl ether	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
o-Xylene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	1.2**
Styrene	0.0011	U	1.0	U	1.0	U	1.0	U	1.0	U	N/A
Tetrachloroethene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	1.4
Toluene	0.0011	U	1.0	U	2.2		1.0	U	1.0	U	1.5
trans-1,2-Dichloroethene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.3
trans-1,3-Dichloropropene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Trichloroethene	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.7
Trichlorofluoromethane	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	N/A
Vinyl Chloride	0.0056	U	5.0	U	5.0	U	5.0	U	5.0	U	0.2
TICs	0.0045	J	15	J	14	J	0		0		
Total VOCs	0.0071		1.5		4.0		1.4		1.2		< 10

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-19		FB030303		TB	FB031003		TB	TAGM 4046
Sample Depth (ft.)	0-0.5		-		-	-		-	Soil Cleanup
Sample Date	3/10/2003		3/3/2003		3/3/2003	3/10/2003		3/10/2003	Objectives /
Laboratory ID number	79964		79537		79538	79537		79953	Eastern USA
PARAMETERS (ppm)									Background (March 6, 2002)
BASE NEUTRAL COMPOUNDS*									
2,4,5-Trichlorophenol	1.1	U	10	U	N/A	10	U	N/A	0.1
2,4,6-Trichlorophenol	1.1	U	10	U	N/A	10	U	N/A	N/A
2,4-Dichlorophenol	1.1	U	10	U	N/A	10	U	N/A	0.4
2,4-Dimethylphenol	1.1	U	10	U	N/A	10	U	N/A	N/A
2,4-Dinitrophenol	1.1	U	10	U	N/A	10	U	N/A	0.200 or MDL
2,4-Dinitrotoluene	1.1	U	10	U	N/A	10	U	N/A	N/A
2,6-Dinitrotoluene	1.1	U	10	U	N/A	10	U	N/A	1.0
2-Chloronaphthalene	1.1	U	10	U	N/A	10	U	N/A	N/A
2-Chlorophenol	1.1	U	10	U	N/A	10	U	N/A	0.8
2-Methylnaphthalene	0.44	J	10	U	N/A	10	U	N/A	36.4
2-Methylphenol	1.1	U	10	U	N/A	10	U	N/A	0.100 or MDL
2-Nitroaniline	1.1	U	10	U	N/A	10	U	N/A	0.430 or MDL
2-Nitrophenol	1.1	U	10	U	N/A	10	U	N/A	0.330 or MDL
3&4-Methylphenol	1.1	U	10	U	N/A	10	U	N/A	
3,3'-Dichlorobenzidine	1.1	U	10	U	N/A	10	U	N/A	N/A
3-Nitroaniline	1.1	U	10	U	N/A	10	U	N/A	0.500 or MDL
4,6-Dinitro-2-methylphenol	1.1	U	10	U	N/A	10	U	N/A	N/A
4-Bromophenyl-phenyl ether	1.1	U	10	U	N/A	10	U	N/A	N/A
4-Chloro-3-methylphenol	1.1	U	10	U	N/A	10	U	N/A	0.240 or MDL
4-Chloroaniline	1.1	U	10	U	N/A	10	U	N/A	0.220 or MDL
4-Chlorophenyl-phenylether	1.1	U	10	U	N/A	10	U	N/A	N/A
4-Nitroaniline	1.1	U	10	U	N/A	10	U	N/A	N/A
4-Nitrophenol	1.1	U	10	U	N/A	10	U	N/A	0.100 or MDL
Acenaphthene	0.12	J	10	U	N/A	10	U	N/A	50
Acenaphthylene	0.99	J	10	U	N/A	10	U	N/A	41
Anthracene	0.74	J	10	U	N/A	10	U	N/A	50
Benzo(a)Anthracene	3.2		10	U	N/A	10	U	N/A	0.224 or MDL
Benzo(a)Pyrene	2.5		10	U	N/A	10	U	N/A	0.061 or MDL
Benzo(b)fluoranthene	3.3		10	U	N/A	10	U	N/A	1.1
Benzo(g,h,i)perylene	1.2		10	U	N/A	10	U	N/A	50
Benzo(k)fluoranthene	1.1	J	10	U	N/A	10	U	N/A	1.1
Bis(2-chloroethoxy)methane	1.1	U	10	U	N/A	10	U	N/A	N/A
Bis(2-chloroethyl)ether	1.1	U	10	U	N/A	10	U	N/A	N/A
Bis(2-chloroisopropyl)ether	1.1	U	10	U	N/A	10	U	N/A	N/A
Bis(2-ethylhexyl)phthalate	1.1	U	10	U	N/A	1.4	JB	N/A	50
Butylbenzylphthalate	1.1	U	10	U	N/A	10	U	N/A	50
Carbazole	0.18	J	10	U	N/A	10	U	N/A	N/A
Chrysene	3.1		10	U	N/A	10	U	N/A	0.4
Dibenzo(a,h)Anthracene	0.45	J	10	U	N/A	10	U	N/A	0.014 or MDL
Dibenzofuran	0.16	J	10	U	N/A	10	U	N/A	6.2
Diethylphthalate	1.1	U	10	U	N/A	10	U	N/A	7.1
Dimethylphthalate	1.1	U	10	U	N/A	10	U	N/A	2.0
Di-n-butylphthalate	0.20	J	10	U	N/A	10	U	N/A	8.1
Di-n-octylphthalate	1.1	U	10	U	N/A	10	U	N/A	50
Fluoranthene	4.8		10	U	N/A	10	U	N/A	50
Fluorene	0.60	J	10	U	N/A	10	U	N/A	50
Hexachlorobenzene	1.1	U	10	U	N/A	10	U	N/A	0.41
Hexachlorobutadiene	1.1	U	10	U	N/A	10	U	N/A	N/A
Hexachlorocyclopentadiene	1.1	U	10	U	N/A	10	U	N/A	N/A
Hexachloroethane	1.1	U	10	U	N/A	10	U	N/A	N/A
Indeno(1,2,3-cd)pyrene	1.1		10	U	N/A	10	U	N/A	3.2
Isophorone	1.1	U	10	U	N/A	10	U	N/A	4.40
Naphthalene	0.72	J	10	U	N/A	10	U	N/A	13.0
Nitrobenzene	1.1	U	10	U	N/A	10	U	N/A	0.200 or MDL
N-Nitroso-Di-N-propylamine	1.1	U	10	U	N/A	10	U	N/A	N/A
N-Nitrosodiphenylamine	1.1	U	10	U	N/A	10	U	N/A	N/A
Pentachlorophenol	1.1	U	10	U	N/A	10	U	N/A	1.0 or MDL
Phenanthrene	3.4		10	U	N/A	10	U	N/A	50.0
Phenol	1.1	U	10	U	N/A	10	U	N/A	0.03 or MDL
Pyrene	5.1		10	U	N/A	10	U	N/A	50.0

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation Sample Depth (ft.) Sample Date Laboratory ID number PARAMETERS (ppm)	SS-19 0-0.5 3/10/2003 79964	FB030303 - 3/3/2003 79537	TB - 3/3/2003 79538	FB031003 - 3/10/2003 79537	TB - 3/10/2003 79953	TAGM 4046 Soil Cleanup Objectives / Eastern USA Background (March 6, 2002)
Total	33.42	0		1.4		< 500

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-19		FB030303		TB	FB031003		TB	TAGM 4046
Sample Depth (ft.)	0-0.5		-		-	-		-	Soil Cleanup
Sample Date	3/10/2003		3/3/2003		3/3/2003	3/10/2003		3/10/2003	Objectives /
Laboratory ID number	79964		79537		79538	79537		79953	Eastern USA
PARAMETERS (ppm)									Background (March 6, 2002)
METALS									
Aluminum	5,700		2,000	U	N/A	2,000	U	N/A	SB / 33000
Antimony	2.2	U	20	U	N/A	20	U	N/A	SB / NA
Arsenic	2.2	U	20	U	N/A	20	U	N/A	7.5 or SB / 3-12
Barium	30		100	U	N/A	100	U	N/A	300 or SB / 15-600
Beryllium	0.67	U	6.0	U	N/A	6.0	U	N/A	0.16 or SB / 0-1.75
Cadmium	0.67	U	6.0	U	N/A	6.0	U	N/A	1 or SB / 0.1-1
Calcium	1,100	U	10,000	U	N/A	10,000	U	N/A	SB / 130-35000
Chromium	8.5		50	U	N/A	50	U	N/A	10 or SB / 1.5-40
Cobalt	4.9		25	U	N/A	25	U	N/A	30 or SB / 2.5-60
Copper	13		50	U	N/A	50	U	N/A	25 or SB / 1-50
Iron	9,700		2,000	U	N/A	2,000	U	N/A	2000 or SB / 2000-550000
Lead	28		50.0	U	N/A	50	U	N/A	SB / 200-500
Magnesium	1,200		5,000	U	N/A	5,000	U	N/A	SB / 100-5000
Manganese	200		100	U	N/A	100	U	N/A	SB / 50-5000
Mercury	0.093	U	0.50	U	N/A	0.50	U	N/A	0.1 / 0.001-0.2
Nickel	8.8		50	U	N/A	50	U	N/A	13 or SB / 0.5-25
Potassium	560	U	5,000	U	N/A	5,000	U	N/A	SB / 8500-43000
Selenium	2.0	U	18	U	N/A	18	U	N/A	2 or SB / 0.1-3.9
Silver	2.8	U	25	U	N/A	25	U	N/A	SB / NA
Sodium	560	U	5,000	U	N/A	5,000	U	N/A	SB / 6000-8000
Thallium	1.3	U	12	U	N/A	12	U	N/A	SB / NA
Vanadium	11	U	100	U	N/A	100	U	N/A	150 or SB / 1-300
Zinc	200		100	U	N/A	100	U	N/A	20 or SB / 9-50
CYANIDE	2.2		0.01	U	N/A	0.01	U	N/A	N/A
PESTICIDES									
Aldrin	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.041
Alpha-BHC	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.11
Beta-BHC	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.2
Chlordane	0.0074	U	0.020	U	N/A	0.20	U	N/A	0.54
Delta-BHC	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.3
Dieldrin	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.044
Endosulfan I	0.0097		0.010	U	N/A	0.10	U	N/A	0.9
Endosulfan II	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.9
Endosulfan Sulfate	0.0037	U	0.010	U	N/A	0.10	U	N/A	1.0
Endrin	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.10
Endrin Aldehyde	0.0037	U	0.010	U	N/A	0.10	U	N/A	N/A
Endrin Ketone	0.0037	U	0.010	U	N/A	0.10	U	N/A	N/A
Gamma-BHC	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.06
Heptachlor	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.10
Heptachlor Epoxide	0.0037	U	0.010	U	N/A	0.10	U	N/A	0.02
Methoxychlor	0.0037	U	0.010	U	N/A	0.10	U	N/A	--
P,P'-DDD	0.0037	U	0.010	U	N/A	0.10	U	N/A	2.9
P,P'-DDE	0.0037	U	0.010	U	N/A	0.10	U	N/A	2.1
P,P'-DDT	0.036		0.010	U	N/A	0.10	U	N/A	2.1
Toxaphene	0.019	U	0.050	U	N/A	0.50	U	N/A	N/A
PCB									
Arochlor-1016	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1221	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1232	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1242	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1248	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1254	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)
Arochlor-1260	0.019	U	0.050	U	N/A	0.50	U	N/A	1 (surface)/10(subsurface)

Notes:
1. NA = Not analyzed.
2. ND = Not detected.

Notes:
1. NA = Not analyzed.
2. ND = Not detected.
3. D = Analytical result taken from secondary sample dilution.
4. B = Found in blank as well as the sample.

6. U = Indicates compound was analyzed but not detected.
7. RE = Reanalyzed due to surrogate recoveries outside QC limits.
8. MS/MSD = Matrix Spike/Matrix Spike Duplicate.

Table 1
Soil Sampling Analytical Results
Iroquois Gas Transmission Pipeline
"Site E"
Hunts Point
Bronx, New York

Sample Designation	SS-19	FB030303	TB	FB031003	TB	TAGM 4046
Sample Depth (ft.)	0-0.5	-	-	-	-	Soil Cleanup
Sample Date	3/10/2003	3/3/2003	3/3/2003	3/10/2003	3/10/2003	Objectives /
Laboratory ID number	79964	79537	79538	79537	79953	Eastern USA
						Background
PARAMETERS (ppm)						(March 6, 2002)

** = Value is for total Xylenes.

** = Value is for total Xylenes.

* = As per TAGM #4046, total VOCs < 10 * = As per TAGM #4046, total VOCs < 10 ppm, Total Semi-VOCs < 500 ppm, and Individual Semi-VOCs < 50 ppm.

ATTACHMENT F
ENSR PILE SAMPLE RESULTS

TEST LABORATORIES, INC. • ENVIRONMENTAL TESTING
77 Sheffield Avenue, North Babylon, New York 11703
631) 422-5777 • FAX (631) 422-5770

CHAIN OF CUSTODY RECORD

lient: CODE ENVIRONMENTAL SERVICES
ddress: 400 MIDDLESEX AVE
CARTERET NJ
hone: 732 969 - 2700 FAX: 732-969-2701 *
erson receiving report: BILL IRELAND
ampled by: ENSR
ource:
ob No.:

* ALSO FAX RESULTS TO: CASIE PRO TANK ATTN: CLIFF FAX # - 856-696-7065

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	FULL TCLP	PCB	RCRA CHARACTERISTICS	PAH	TOTAL VOC's	TPH	ASBESTOS CONTENT	REMARKS–TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc
SOIL	4/15/03	1220	HPSA#1-01A	4	X	X	X	X	X	X	X	4 DAY TAT
SOIL	4/15/03	1245	HPSA#1-01B	4	X	X	X	X	X	X	X	
SOIL	4/15/03	1110	HPSA#1-01C	4	X	X	X	X	X	X	X	

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature)
Representing:	4/16/03 1130		Representing:	Representing:			Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220
MATRIX:Extract SAMPLE: HPSA#1-01A
HPSA#1-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTIC/ METHOD
Arsenic as As	mg/L	< 0.05		04/18/03	0.05	EPA6010
Barium as Ba	mg/L	0.35		04/18/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		04/18/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		04/18/03	0.05	EPA6010
Lead as Pb	mg/L	0.44		04/18/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		04/18/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		04/18/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		04/18/03	0.05	EPA6010
TCLP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14662 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220
MATRIX:Extract SAMPLE: HPSA#1-01A
HPSA#1-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		04/17/03	0.5	EPA8081
Endrin	ug/L	< 0.5		04/17/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		04/17/03	1	EPA8081
Toxaphene	ug/L	< 10		04/17/03	10	EPA8081
Chlordane	ug/L	< 2		04/17/03	2	EPA8081
Heptachlor	ug/L	< 0.5		04/17/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		04/17/03	0.5	EPA8081
?,4-D	ug/L	< 1		04/18/03	1	EPA8151
,4,5-TP	ug/L	< 0.5		04/18/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		04/18/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		04/18/03	10	EPA8270
4-Methylphenol (p-cresol)	.g/L	< 10		04/18/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		04/18/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		04/18/03	10	EPA8270
Hexachloroethane	ug/L	< 10		04/18/03	10	EPA8270
Nitrobenzene	ug/L	< 10		04/18/03	10	EPA8270
Pyridine	ug/L	< 10		04/18/03	10	EPA8270
TCLP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

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LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
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Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220
MATRIX:Extract SAMPLE: HPSA#1-01A
HPSA#1-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTIC METHOD
Carbon Tetrachloride	ug/L	< 1		04/18/03	1	EPA8260
Chlorobenzene	ug/L	< 1		04/18/03	1	EPA8260
Chloroform	ug/L	< 1		04/18/03	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		04/18/03	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		04/18/03	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		04/18/03	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		04/18/03	10	EPA8260
Tetrachloroethene	ug/L	< 1		04/18/03	1	EPA8260
Trichloroethylene	ug/L	< 1		04/18/03	1	EPA8260
Vinyl Chloride	ug/L	< 1		04/18/03	1	EPA8260
Benzene	ug/L	3		04/18/03	1	EPA8260
TCLP Zero Headspace Extract				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

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377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220

MATRIX:Soil SAMPLE: HPSA#1-01A
HPSA#1-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Dichlordifluomethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Chloromethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Vinyl Chloride	ug/Kg	< 220		04/18/03	224.71	EPA8260
Bromomethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Chloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Trichlorofluomethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,1 Dichloroethene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Methylene Chloride	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,2-Dichloroethene	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,1 Dichloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
2,2-Dichloropropane	ug/Kg	< 220		04/18/03	224.71	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Bromochloromethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Chloroform	ug/Kg	< 220		04/18/03	224.71	EPA8260
111 Trichloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Carbon Tetrachloride	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,1-Dichloropropene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Benzene	ug/Kg	220		04/18/03	224.71	EPA8260
1,2 Dichloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Trichloroethylene	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,2 Dichloropropane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Dibromomethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Bromodichloromethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
t-1,3Dichloropropene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Toluene	ug/Kg	310		04/18/03	224.71	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220

MATRIX:Soil SAMPLE: HPSA#1-01A
HPSA#1-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAl METHOD
t-1,3Dichloropropene	ug/Kg	< 220		04/18/03	224.71	EPA8260
112 Trichloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Tetrachloroethene	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,3-Dichloropropane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Chlorodibromomethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,2 Dibromoethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
Chlorobenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
thyl Benzene	ug/Kg	260		04/18/03	224.71	EPA8260
1112Tetrachloroethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
m + p Xylene	ug/Kg	820		04/18/03	449.43	EPA8260
o Xylene	ug/Kg	260		04/18/03	224.71	EPA8260
Styrene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Bromoform	ug/Kg	< 220		04/18/03	224.71	EPA8260
Isopropylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Bromobenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
1122Tetrachlorocthane	ug/Kg	< 220		04/18/03	224.71	EPA8260
123-Trichloropropane	ug/Kg	< 220		04/18/03	224.71	EPA8260
n-Propylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
2-Chlorotoluene	ug/Kg	< 220		04/18/03	224.71	EPA8260
135-Trimethylbenzene	ug/Kg	290		04/18/03	224.71	EPA8260
4-Chlorotoluene	ug/Kg	< 220		04/18/03	224.71	EPA8260
tert-Butylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
124-Trimethylbenzene	ug/Kg	700		04/18/03	224.71	EPA8260
sec-Butylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
p-Isopropyltoluene	ug/Kg	< 220		04/18/03	224.71	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR 

rn = 14666 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220
MATRIX:Soil SAMPLE: HPSA#1-01A
HPSA#1-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	< 220		04/18/03	224.71	EPA8260
n-Butylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 220		04/18/03	224.71	EPA8260
Dibromochloropropane	ug/Kg	< 220		04/18/03	224.71	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 220		04/18/03	224.71	EPA8260
Hexachlorobutadiene	ug/Kg	< 220		04/18/03	224.71	EPA8260
aphthalene(v)	ug/Kg	53000		04/18/03	224.71	EPA8260
23-Trichlorobenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
ter.ButylMethylEther	ug/Kg	< 220		04/18/03	224.71	EPA8260
p-Ethyltoluene	ug/Kg	< 220		04/18/03	224.71	EPA8260
Freon 113	ug/Kg	< 220		04/18/03	224.71	EPA8260
1245 Tetramethylbenz	ug/Kg	< 220		04/18/03	224.71	EPA8260
Acetone	ug/Kg	< 2200		04/18/03	2247.1	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 2200		04/18/03	2247.1	EPA8260
Methylisobutylketone	ug/Kg	< 2200		04/18/03	2247.1	EPA8260
Chlorodifluoromethane	ug/Kg	< 220		04/18/03	224.71	EPA8260
p Diethylbenzene	ug/Kg	< 220		04/18/03	224.71	EPA8260
% Solids		89		04/17/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

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LAB NO.231771.01 04/21/03

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ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220

MATRIX:Soil SAMPLE: HPSA#1-01A
HPSA#1-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	18000		04/17/03	337.07	EPA8270
2-Methylnaphthalene	ug/Kg	7100		04/17/03	337.07	EPA8270
Acenaphthylene	ug/Kg	9300		04/17/03	337.07	EPA8270
Acenaphthene	ug/Kg	1800		04/17/03	337.07	EPA8270
Fluorene	ug/Kg	17000		04/17/03	337.07	EPA8270
Phenanthrene	ug/Kg	62000		04/18/03	3370.7	EPA8270
Anthracene	ug/Kg	13000		04/17/03	337.07	EPA8270
luoranthene	ug/Kg	46000		04/18/03	3370.7	EPA8270
yrene	ug/Kg	45000		04/18/03	3370.7	EPA8270
Benzo(a)anthracene	ug/Kg	19000		04/17/03	337.07	EPA8270
Chrysene	ug/Kg	17000		04/17/03	337.07	EPA8270
Benzo(b)fluoranthene	ug/Kg	15000	#	04/17/03	337.07	EPA8270
Benzo(k)fluoranthene	ug/Kg	15000	#	04/17/03	337.07	EPA8270
Benzo(a)pyrene	ug/Kg	18000		04/17/03	337.07	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	7300		04/17/03	337.07	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	3400		04/17/03	337.07	EPA8270
Benzo(ghi)perylene	ug/Kg	6500		04/17/03	337.07	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 30000ug/Kg, unable to separate isomers.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.01 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1220
MATRIX:Soil SAMPLE: HPSA#1-01A
HPSA#1-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1221	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1232	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1242	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1248	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1254	ug/Kg	< 45		04/17/03	44.943	EPA8082
Aroclor 1260	ug/Kg	< 45		04/17/03	44.943	EPA8082
lash Point deg C		> 100		04/17/03	25	EPA1010
pH (lab) units		7.5		04/17/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.2		04/16/03	2.2471	EPA335.4
Sulfide as S	mg/Kg	< 2.2		04/21/03	2.2471	EPA376.2
Petrol. Hydrocarbons	mg/Kg	6700		04/17/03	112.35	EPA418.1
Asbestos Content (%) (PLM)	%	< 1	*	04/18/03	1	PLM

cc:

LRL=laboratory Reporting Limit

REMARKS: * NAD (No Asbestos Detected) Analysis performed by Warren & Panzer, Long Island City, NY.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245

MATRIX:Extract SAMPLE: HPSA#1-01B
HPSA#1-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		04/18/03	0.05	EPA6010
Barium as Ba	mg/L	0.62		04/18/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		04/18/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		04/18/03	0.05	EPA6010
Lead as Pb	mg/L	0.15		04/18/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		04/18/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		04/18/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		04/18/03	0.05	EPA6010
TCLP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14670 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245
MATRIX:Extract SAMPLE: HPSA#1-01B
HPSA#1-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		04/17/03	0.5	EPA8081
Endrin	ug/L	< 0.5		04/17/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		04/17/03	1	EPA8081
Toxaphene	ug/L	< 10		04/17/03	10	EPA8081
Chlordane	ug/L	< 2		04/17/03	2	EPA8081
Heptachlor	ug/L	< 0.5		04/17/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		04/17/03	0.5	EPA8081
?,4-D	ug/L	< 1		04/18/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		04/18/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		04/18/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		04/18/03	10	EPA8270
4-Methylphenol (p-cresol)	.g/L	< 10		04/18/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		04/18/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		04/18/03	10	EPA8270
Hexachloroethane	ug/L	< 10		04/18/03	10	EPA8270
Nitrobenzene	ug/L	< 10		04/18/03	10	EPA8270
Pyridine	ug/L	< 10		04/18/03	10	EPA8270
TCLP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245
MATRIX:Extract SAMPLE: HPSA#1-01B
HPSA#1-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 1		04/18/03	1	EPA8260
Chlorobenzene	ug/L	< 1		04/18/03	1	EPA8260
Chloroform	ug/L	< 1		04/18/03	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		04/18/03	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		04/18/03	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		04/18/03	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		04/18/03	10	EPA8260
Tetrachloroethene	ug/L	< 1		04/18/03	1	EPA8260
Trichloroethylene	ug/L	< 1		04/18/03	1	EPA8260
Vinyl Chloride	ug/L	< 1		04/18/03	1	EPA8260
Benzene	ug/L	< 1		04/18/03	1	EPA8260
TCLP Zero Headspace Extract				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245
MATRIX:Soil SAMPLE: HPSA#1-01B
HPSA#1-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICA METHOD
Dichlordifluomethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Chloromethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Vinyl Chloride	ug/Kg	< 230		04/18/03	229.88	EPA8260
Bromomethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Chloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Trichlorofluomethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,1 Dichloroethene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Methylene Chloride	ug/Kg	< 230		04/18/03	229.88	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,1 Dichloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
2,2-Dichloropropane	ug/Kg	< 230		04/18/03	229.88	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Bromochloromethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Chloroform	ug/Kg	< 230		04/18/03	229.88	EPA8260
111 Trichloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Carbon Tetrachloride	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,1-Dichloropropene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Benzene	ug/Kg	330		04/18/03	229.88	EPA8260
1,2 Dichloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Trichloroethylene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,2 Dichloropropane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Dibromomethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Bromodichloromethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
c-1,3Dichloropropene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Toluene	ug/Kg	280		04/18/03	229.88	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245

MATRIX:Soil SAMPLE: HPSA#1-01B
HPSA#1-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
t-1,3Dichloropropene	ug/Kg	< 230		04/18/03	229.88	EPA8260
112 Trichloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Tetrachloroethene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,3-Dichloropropane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Chlorodibromomethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,2 Dibromoethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
Chlorobenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Ethyl Benzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1112Tetrachloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
m + p Xylene	ug/Kg	740		04/18/03	459.77	EPA8260
o Xylene	ug/Kg	450		04/18/03	229.88	EPA8260
Styrene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Bromoform	ug/Kg	< 230		04/18/03	229.88	EPA8260
Isopropylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Bromobenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1122Tetrachloroethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
123-Trichloropropane	ug/Kg	< 230		04/18/03	229.88	EPA8260
n-Propylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
2-Chlorotoluene	ug/Kg	< 230		04/18/03	229.88	EPA8260
135-Trimethylbenzene	ug/Kg	360		04/18/03	229.88	EPA8260
4-Chlorotoluene	ug/Kg	< 230		04/18/03	229.88	EPA8260
tert-Butylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
124-Trimethylbenzene	ug/Kg	860		04/18/03	229.88	EPA8260
sec-Butylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
p-Isopropyltoluene	ug/Kg	< 230		04/18/03	229.88	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245

MATRIX:Soil SAMPLE: HPSA#1-01B
HPSA#1-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICA METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	< 230		04/18/03	229.88	EPA8260
n-Butylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 230		04/18/03	229.88	EPA8260
Dibromochloropropane	ug/Kg	< 230		04/18/03	229.88	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 230		04/18/03	229.88	EPA8260
Hexachlorobutadiene	ug/Kg	< 230		04/18/03	229.88	EPA8260
aphthalene(v)	ug/Kg	68000		04/18/03	1149.4	EPA8260
123-Trichlorobenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
ter.ButylMethylEther	ug/Kg	< 230		04/18/03	229.88	EPA8260
p-Ethyltoluene	ug/Kg	< 230		04/18/03	229.88	EPA8260
Freon 113	ug/Kg	< 230		04/18/03	229.88	EPA8260
1245 Tetramethylbenz	ug/Kg	< 230		04/18/03	229.88	EPA8260
Acetone	ug/Kg	< 2300		04/18/03	2298.8	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 2300		04/18/03	2298.8	EPA8260
Methylisobutylketone	ug/Kg	< 2300		04/18/03	2298.8	EPA8260
Chlorodifluoromethane	ug/Kg	< 230		04/18/03	229.88	EPA8260
p Diethylbenzene	ug/Kg	< 230		04/18/03	229.88	EPA8260
% Solids		87		04/17/03	0.1	SM182540G

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245
MATRIX:Soil SAMPLE: HPSA#1-01B
HPSA#1-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	20000		04/17/03	344.82	EPA8270
2-Methylnaphthalene	ug/Kg	6600		04/17/03	344.82	EPA8270
Acenaphthylene	ug/Kg	8300		04/17/03	344.82	EPA8270
Acenaphthene	ug/Kg	16000		04/17/03	344.82	EPA8270
Fluorene	ug/Kg	30000		04/17/03	344.82	EPA8270
Phenanthrene	ug/Kg	110000		04/18/03	3448.2	EPA8270
Anthracene	ug/Kg	25000		04/18/03	3448.2	EPA8270
Fluoranthene	ug/Kg	72000		04/18/03	3448.2	EPA8270
Pyrene	ug/Kg	66000		04/18/03	3448.2	EPA8270
Benzo(a)anthracene	ug/Kg	31000		04/17/03	344.82	EPA8270
Chrysene	ug/Kg	26000		04/17/03	344.82	EPA8270
Benzo(b)fluoranthene	ug/Kg	19000	#	04/18/03	3448.2	EPA8270
Benzo(k)fluoranthene	ug/Kg	19000	#	04/18/03	3448.2	EPA8270
Benzo(a)pyrene	ug/Kg	22000		04/18/03	3448.2	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	9900		04/18/03	3448.2	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	4900		04/18/03	3448.2	EPA8270
Benzo(ghi)perylene	ug/Kg	9700		04/18/03	3448.2	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 38000ug/Kg, unable to separate isomers.

DIRECTOR

rn = 14676 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.02 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1245
MATRIX:Soil SAMPLE: HPSA#1-01B
HPSA#1-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1221	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1232	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1242	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1248	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1254	ug/Kg	< 46		04/17/03	45.977	EPA8082
Aroclor 1260	ug/Kg	< 46		04/17/03	45.977	EPA8082
Flash Point deg C		> 100		04/17/03	25	EPA1010
pH (lab) units		8.2		04/17/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.3		04/16/03	2.2988	EPA335.4
Sulfide as S	mg/Kg	< 2.3		04/21/03	2.2988	EPA376.2
Petrol. Hydrocarbons	mg/Kg	3300		04/17/03	114.94	EPA418.1
Asbestos Content (%) (PLM)	%	< 1	*	04/18/03	1	PLM

cc:

LRL=laboratory Reporting Limit

REMARKS: * NAD (No Asbestos Detected) Analysis performed by Warren & Panzer, Long Island City, NY.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110
MATRIX:Extract SAMPLE: HPSA#1-01C
HPSA#1-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		04/18/03	0.05	EPA6010
Barium as Ba	mg/L	0.53		04/18/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		04/18/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		04/18/03	0.05	EPA6010
Lead as Pb	mg/L	0.37		04/18/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		04/18/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		04/18/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		04/18/03	0.05	EPA6010
LP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14678 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110
MATRIX:Extract SAMPLE: HPSA#1-01C
HPSA#1-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICA METHOD
Lindane	ug/L	< 0.5		04/17/03	0.5	EPA8081
Endrin	ug/L	< 0.5		04/17/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		04/17/03	1	EPA8081
Toxaphene	ug/L	< 10		04/17/03	10	EPA8081
Chlordane	ug/L	< 2		04/17/03	2	EPA8081
Heptachlor	ug/L	< 0.5		04/17/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		04/17/03	0.5	EPA8081
2,4-D	ug/L	< 1		04/18/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		04/18/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		04/18/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		04/18/03	10	EPA8270
4-Methylphenol (p-cresol)	.g/L	< 10		04/18/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		04/18/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		04/18/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		04/18/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		04/18/03	10	EPA8270
Hexachloroethane	ug/L	< 10		04/18/03	10	EPA8270
Nitrobenzene	ug/L	< 10		04/18/03	10	EPA8270
Pyridine	ug/L	< 10		04/18/03	10	EPA8270
TCLP Extraction				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon. NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110
MATRIX:Extract SAMPLE: HPSA#1-01C
HPSA#1-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICA METHOD
Carbon Tetrachloride	ug/L	< 1		04/18/03	1	EPA8260
Chlorobenzene	ug/L	< 1		04/18/03	1	EPA8260
Chloroform	ug/L	< 1		04/18/03	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		04/18/03	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		04/18/03	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		04/18/03	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		04/18/03	10	EPA8260
Tetrachloroethene	ug/L	< 1		04/18/03	1	EPA8260
richloroethylene	ug/L	< 1		04/18/03	1	EPA8260
Vinyl Chloride	ug/L	< 1		04/18/03	1	EPA8260
Benzene	ug/L	< 1		04/18/03	1	EPA8260
TCLP Zero Headspace Extract				04/16/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14680 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110

MATRIX:Soil SAMPLE: HPSA#1-01C
HPSA#1-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTI METHOD
Dichlordifluomethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Chloromethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Vinyl Chloride	ug/Kg	< 110		04/18/03	111.11	EPA8260
Bromomethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Chloroethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Trichlorofluomethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,1 Dichloroethene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Methylene Chloride	ug/Kg	< 110		04/18/03	111.11	EPA8260
t-1,2-Dichloroethene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,1 Dichloroethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
2,2-Dichloropropane	ug/Kg	< 110		04/18/03	111.11	EPA8260
c-1,2-Dichloroethene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Bromochloromethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Chloroform	ug/Kg	< 110		04/18/03	111.11	EPA8260
111 Trichloroethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Carbon Tetrachloride	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,1-Dichloropropene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Benzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,2 Dichloroethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Trichloroethylene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,2 Dichloropropane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Dibromomethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Bromodichloromethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
c-1,3Dichloropropene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Toluene	ug/Kg	< 110		04/18/03	111.11	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14681 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110

MATRIX:Soil SAMPLE: HPSA#1-01C
HPSA#1-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICA METHOD
t-1,3Dichloropropene	ug/Kg	< 110		04/18/03	111.11	EPA8260
112 Trichlorocthane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Tetrachloroethene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,3-Dichloropropane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Chlorodibromomethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,2 Dibromoethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
Chlorobenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Ethyl Benzene	ug/Kg	190		04/18/03	111.11	EPA8260
1112Tetrachloroethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
m + p Xylene	ug/Kg	370		04/18/03	222.22	EPA8260
o Xylene	ug/Kg	480		04/18/03	111.11	EPA8260
Styrene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Bromoform	ug/Kg	< 110		04/18/03	111.11	EPA8260
Isopropylbenzene	ug/Kg	170		04/18/03	111.11	EPA8260
Bromobenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1122Tetrachlorocthane	ug/Kg	< 110		04/18/03	111.11	EPA8260
123-Trichloropropane	ug/Kg	< 110		04/18/03	111.11	EPA8260
n-Propylbenzene	ug/Kg	260		04/18/03	111.11	EPA8260
2-Chlorotoluene	ug/Kg	< 110		04/18/03	111.11	EPA8260
135-Trimethylbenzene	ug/Kg	940		04/18/03	111.11	EPA8260
4-Chlorotoluene	ug/Kg	< 110		04/18/03	111.11	EPA8260
tert-Butylbenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
124-Trimethylbenzene	ug/Kg	3200		04/18/03	111.11	EPA8260
sec-Butylbenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
p-Isopropyltoluene	ug/Kg	220		04/18/03	111.11	EPA8260

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14682 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110
MATRIX:Soil SAMPLE: HPSA#1-01C
HPSA#1-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTIC/ METHOD
1,3 Dichlorobenzene (v)	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,4 Dichlorobenzene (v)	ug/Kg	< 110		04/18/03	111.11	EPA8260
n-Butylbenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
1,2 Dichlorobenzene (v)	ug/Kg	< 110		04/18/03	111.11	EPA8260
Dibromochloropropane	ug/Kg	< 110		04/18/03	111.11	EPA8260
124-Trichlorobenzene (v)	ug/Kg	< 110		04/18/03	111.11	EPA8260
Hexachlorobutadiene	ug/Kg	< 110		04/18/03	111.11	EPA8260
Naphthalene(v)	ug/Kg	19000		04/18/03	1111.1	EPA8260
123-Trichlorobenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
ter.ButylMethylEther	ug/Kg	< 110		04/18/03	111.11	EPA8260
p-Ethyltoluene	ug/Kg	890		04/18/03	111.11	EPA8260
Freon 113	ug/Kg	< 110		04/18/03	111.11	EPA8260
1245 Tetramethylbenz	ug/Kg	840		04/18/03	111.11	EPA8260
Acetone	ug/Kg	< 1100		04/18/03	1111.1	EPA8260
Methyl Ethyl Ketone	ug/Kg	< 1100		04/18/03	1111.1	EPA8260
Methylisobutylketone	ug/Kg	< 1100		04/18/03	1111.1	EPA8260
Chlorodifluoromethane	ug/Kg	< 110		04/18/03	111.11	EPA8260
p Diethylbenzene	ug/Kg	< 110		04/18/03	111.11	EPA8260
% Solids		90		04/17/03	0.1	SM1825400

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 14683 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon. NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110

MATRIX:Soil SAMPLE: HPSA#1-01C
HPSA#1-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	11000		04/17/03	333.33	EPA8270
2-Methylnaphthalene	ug/Kg	3700		04/17/03	333.33	EPA8270
Acenaphthylene	ug/Kg	4700		04/17/03	333.33	EPA8270
Acenaphthene	ug/Kg	3200		04/17/03	333.33	EPA8270
Fluorene	ug/Kg	10000		04/17/03	333.33	EPA8270
Phenanthrene	ug/Kg	32000		04/17/03	333.33	EPA8270
Anthracene	ug/Kg	8400		04/17/03	333.33	EPA8270
[illegible]uoranthene	ug/Kg	21000		04/17/03	333.33	EPA8270
[illegible]ne	ug/Kg	23000		04/17/03	333.33	EPA8270
Benzo(a)anthracene	ug/Kg	10000		04/17/03	333.33	EPA8270
Chrysene	ug/Kg	9400		04/17/03	333.33	EPA8270
Benzo(b)fluoranthene	ug/Kg	7200	#$	04/17/03	333.33	EPA8270
Benzo(k)fluoranthene	ug/Kg	7200	#$	04/17/03	333.33	EPA8270
Benzo(a)pyrene	ug/Kg	8200	$	04/17/03	333.33	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	3000	$	04/17/03	333.33	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	1700	$	04/17/03	333.33	EPA8270
Benzo(ghi)perylene	ug/Kg	2700	$	04/17/03	333.33	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 14400 ug/Kg, unable to separate isomers.
$Estimated due to low internal standard, $49%. Low recovery due to interfernce. QC limit is 50%.

DIRECTOR

rn = 14684 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.231771.03 04/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE:
COLLECTED BY: Client DATE COL'D:04/15/03 RECEIVED:04/16/03
TIME COL'D:1110

MATRIX:Soil SAMPLE: HPSA#1-01C
HPSA#1-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1221	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1232	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1242	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1248	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1254	ug/Kg	< 44		04/17/03	44.444	EPA8082
Aroclor 1260	ug/Kg	53		04/17/03	44.444	EPA8082
Flash Point deg C		> 100		04/17/03	25	EPA1010
pH (lab) units		8.3		04/17/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.2		04/16/03	2.2222	EPA335.4
Sulfide as S	mg/Kg	< 2.2		04/21/03	2.2222	EPA376.2
Petrol. Hydrocarbons	mg/Kg	4400		04/17/03	55.555	EPA418.1
Asbestos Content (%) (PLM)	%	< 1	*	04/18/03	1	PLM

cc:

LRL=laboratory Reporting Limit

REMARKS: * NAD (No Asbestos Detected) Analysis performed by Warren & Panzer, Long Island City, NY.

DIRECTOR

rn = 14685 NYSDOH ID # 10320

:CO T ES LABORATORIES, INC. • ENVIRONMENTAL TESTIN.
7 Sheffield Avenue, North Babylon, New York 11703
31) 422-5777 • FAX (631) 422-5770

CHAIN OF CUSTODY RECORD

ent: CODE ENV SERVICES
dress: 400 ANDERSON AVE
one: 732 969 5700 FAX: 718 893 3870
rson receiving report: Bill Ireland
mpled by: Bill Ireland / CODE
urce:
No.: SITE HUNTS POINT NY

Please also fax results to:
CASIE - ATTN: CLIFF 856-696-7065
CLEAN EARTH ATTN: CHEL GLUM 302 427 6634

MATRIX (Soil, water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	TYPE & NUMBER OF CONTAINERS: PCE TCE	PCB	RCRA CHARACTERISTICS	TPH	DAP	TCL	BETX
Soil	6/11/04	0914	HPSA #2 - 01A		X	X	X	X	X	X	X
Soil	6/11/04	0914	HPSA #2 - 01B		X	X	X	X	X	X	X
Soil	6/11/04	0915	HPSA #2 - 01C		X	X	X	X	X	X	X

REMARKS-TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc.

4 Business Day
TAT

Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:
[signature]	6/11/04						
Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.01

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01A
HPSA#2-01A
TCLP

ALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
:bon Tetrachloride	ug/L	< 10		06/16/03	10	EPA8260
lorobenzene	ug/L	< 10		06/16/03	10	EPA8260
loroform	ug/L	< 10		06/16/03	10	EPA8260
4 Dichlorobenzene (v)	ug/L	< 10		06/16/03	10	EPA8260
2 Dichloroethane	ug/L	< 10		06/16/03	10	EPA8260
1 Dichloroethene	ug/L	< 10		06/16/03	10	EPA8260
thyl Ethyl Ketone	ug/L	< 100		06/16/03	100	EPA8260
trachloroethene	ug/L	< 10		06/16/03	10	EPA8260
hloroethylene	ug/L	< 10		06/16/03	10	EPA8260
nyl Chloride	ug/L	< 10		06/16/03	10	EPA8260
nzene	ug/L	< 10		06/16/03	10	EPA8260
LP Zero Headspace Extract				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23598

NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232892.01 06/17/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01A
HPSA#2-01A
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
enic as As	mg/L	0.052		06/17/03	0.05	EPA6010
ium as Ba	mg/L	0.25	*	06/17/03	0.05	EPA6010
nium as Cd	mg/L	< 0.05		06/17/03	0.05	EPA6010
omium as Cr	mg/L	< 0.05		06/17/03	0.05	EPA6010
d as Pb	mg/L	1.3		06/17/03	0.05	EPA6010
cury as Hg	mg/L	< 0.001		06/17/03	0.001	EPA7470A
enium as Se	mg/L	< 0.1		06/17/03	0.1	EPA6010
ver as Ag	mg/L	< 0.05		06/17/03	0.05	EPA6010
- Extraction				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS: * Blank corrected Analyte.

DIRECTOR

rn = 23599 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.2[illegible]2892.01

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01A
HPSA#2-01A
TCLP

ALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ıdane	ug/L	< 0.5		06/17/03	0.5	EPA8081
ırin	ug/L	< 0.5		06/16/03	0.5	EPA8081
:hoxychlor	ug/L	< 1		06/16/03	1	EPA8081
‹aphene	ug/L	< 10		06/16/03	10	EPA8081
lordane	ug/L	< 2		06/16/03	2	EPA8081
›tachlor	ug/L	< 0.5		06/16/03	0.5	EPA8081
›tachlor Epoxide	ug/L	< 0.5		06/17/03	0.5	EPA8081
4-D	ug/L	< 1		06/16/03	1	EPA8151
5-TP	ug/L	< 0.5		06/17/03	0.5	EPA8151
ıethylphenol (p-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ıethylphenol (m-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ıethylphenol (p-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ıtachlorophenol (ms)	ug/L	< 100		06/16/03	100	EPA8270
4,5-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
4,6-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
4-Dinitrotoluene	ug/L	< 10		06/16/03	10	EPA8270
xachlorobenzene	ug/L	< 10		06/16/03	10	EPA8270
xachlorobutadiene	ug/L	< 10		06/16/03	10	EPA8270
xachloroethane	ug/L	< 10		06/16/03	10	EPA8270
trobenzene	ug/L	< 10		06/16/03	10	EPA8270
ridine	ug/L	< 10		06/16/03	10	EPA8270
LP Extraction				06/15/03		EPA1311

cc

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23600 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.01

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008 PO#:
ATTN: Bill Ireland

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil SAMPLE: HPSA#2-01A
HPSA#2-01A

Results reported on a dry weight basis

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
clor 1016	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1221	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1232	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1242	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1248	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1254	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
clor 1260	ug/Kg	< 230	**	06/17/03	229.88	EPA8082
ene	ug/Kg	20		06/16/03	11.494	EPA8021
uene	ug/Kg	29		06/16/03	11.494	EPA8021
yl Benzene	ug/Kg	< 11		06/16/03	11.494	EPA8021
p Xylene	ug/Kg	92		06/16/03	22.988	EPA8021
Xylene	ug/Kg	220		06/16/03	11.494	EPA8021
Solids		87		06/16/03	0.1	SM18 2540G
active cyanide	mg/Kg	< 2.3		06/16/03	2.2988	EPA335.3
lfide as S	mg/Kg	< 2.3		06/16/03	2.2988	EPA376.2
ash Point deg C		> 100		06/16/03	25	EPA1010
(lab) units		7.4		06/16/03	0.1	EPA9045C
trol. Hydrocarbons	mg/Kg	900		06/16/03	27.586	EPA418.1
t.Organic Halogens	mg/Kg	< 11	*	06/17/03	11.494	EPA9020B

cc

LRL=laboratory Reporting Limit

REMARKS: * Anaylsis was performed by ELAP Lab #11693.
**Elevated detection limit due to sample interference.

DIRECTOR

rn = 23601 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.01

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008 PO#:

ATTN: Bill Ireland

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil SAMPLE: HPSA#2-01A
HPSA#2-01A

Results reported on a dry weight basis

ALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
phthalene(sv)	ug/Kg	16000		06/16/03	3448.2	EPA8270
fethylnaphthalene	ug/Kg	62000		06/16/03	3448.2	EPA8270
enaphthylene	ug/Kg	6000		06/16/03	3448.2	EPA8270
enaphthene	ug/Kg	6200		06/16/03	3448.2	EPA8270
iorene	ug/Kg	22000		06/16/03	3448.2	EPA8270
enanthrene	ug/Kg	120000		06/16/03	3448.2	EPA8270
thracene	ug/Kg	11000		06/16/03	3448.2	EPA8270
oranthene	ug/Kg	59000		06/16/03	3448.2	EPA8270
ne	ug/Kg	71000		06/16/03	3448.2	EPA8270
nzo(a)anthracene	ug/Kg	24000		06/16/03	3448.2	EPA8270
rysene	ug/Kg	25000		06/16/03	3448.2	EPA8270
nzo(b)fluoranthene	ug/Kg	17000	*	06/16/03	3448.2	EPA8270
nzo(k)fluoranthene	ug/Kg	17000	*	06/16/03	3448.2	EPA8270
nzo(a)pyrene	ug/Kg	18000		06/16/03	3448.2	EPA8270
deno(1,2,3-cd)pyrene	ug/Kg	8900		06/16/03	3448.2	EPA8270
benzo(a,h)anthracene	ug/Kg	< 3400		06/16/03	3448.2	EPA8270
nzo(ghi)perylene	ug/Kg	9200		06/16/03	3448.2	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total = 30000 ug/Kg**, unable to separate isomers.
**WET WEIGHT RESULT.

DIRECTOR

rn = 23602 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.212892.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01B
HPSA#2-01B
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
bon Tetrachloride	ug/L	< 10		06/16/03	10	EPA8260
orobenzene	ug/L	< 10		06/16/03	10	EPA8260
oroform	ug/L	< 10		06/16/03	10	EPA8260
Dichlorobenzene (v)	ug/L	< 10		06/16/03	10	EPA8260
Dichloroethane	ug/L	< 10		06/16/03	10	EPA8260
Dichloroethene	ug/L	< 10		06/16/03	10	EPA8260
hyl Ethyl Ketone	ug/L	< 100		06/16/03	100	EPA8260
rachloroethene	ug/L	< 10		06/16/03	10	EPA8260
loroethylene	ug/L	< 10		06/16/03	10	EPA8260
yl Chloride	ug/L	< 10		06/16/03	10	EPA8260
zene	ug/L	< 10		06/16/03	10	EPA8260
P Zero Headspace Extract				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23603 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01B
HPSA#2-01B
TCLP

ALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ldane	ug/L	< 0.5		06/17/03	0.5	EPA8081
lrin	ug/L	< 0.5		06/16/03	0.5	EPA8081
:hoxychlor	ug/L	< 1		06/16/03	1	EPA8081
caphene	ug/L	< 10		06/16/03	10	EPA8081
lordane	ug/L	< 2		06/16/03	2	EPA8081
otachlor	ug/L	< 0.5		06/16/03	0.5	EPA8081
otachlor Epoxide	ug/L	< 0.5		06/17/03	0.5	EPA8081
4-D	ug/L	< 1		06/17/03	1	EPA8151
5-TP	ug/L	< 0.5		06/17/03	0.5	EPA8151
methylphenol (o-cresol)	ug/L	< 10		06/16/03	10	EPA8270
Methylphenol (m-cresol)	ug/L	< 10		06/16/03	10	EPA8270
Methylphenol (p-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ntachlorophenol (ms)	ug/L	< 100		06/16/03	100	EPA8270
4,5-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
4,6-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
4-Dinitrotoluene	ug/L	< 10		06/16/03	10	EPA8270
xachlorobenzene	ug/L	< 10		06/16/03	10	EPA8270
xachlorobutadiene	ug/L	< 10		06/16/03	10	EPA8270
xachloroethane	ug/L	< 10		06/16/03	10	EPA8270
trobenzene	ug/L	< 10		06/16/03	10	EPA8270
ridine	ug/L	< 10		06/16/03	10	EPA8270
LP Extraction				06/15/03		EPA1311

cc

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23604 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.212892.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01B
HPSA#2-01B
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
enic as As	mg/L	0.14		06/17/03	0.05	EPA6010
ium as Ba	mg/L	0.2	*	06/17/03	0.05	EPA6010
mium as Cd	mg/L	< 0.05		06/17/03	0.05	EPA6010
omium as Cr	mg/L	< 0.05		06/17/03	0.05	EPA6010
d as Pb	mg/L	0.28		06/17/03	0.05	EPA6010
cury as Hg	mg/L	< 0.001		06/17/03	0.001	EPA7470A
enium as Se	mg/L	< 0.1		06/17/03	0.1	EPA6010
ver as Ag	mg/L	< 0.05		06/17/03	0.05	EPA6010
Extraction				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS: * Blank corrected Analyte.

DIRECTOR

rn = 23605 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.212892.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil SAMPLE: HPSA#2-01B
HPSA#2-01B

Results reported on a dry weight basis

ALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
)clor 1016	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1221	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1232	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1242	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1248	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1254	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
)clor 1260	ug/Kg	< 230	**	06/17/03	232.55	EPA8082
ene	ug/Kg	30		06/16/03	11.627	EPA8021
luene	ug/Kg	49		06/16/03	11.627	EPA8021
yl Benzene	ug/Kg	40		06/16/03	11.627	EPA8021
p Xylene	ug/Kg	150		06/16/03	23.255	EPA8021
Xylene	ug/Kg	260		06/16/03	11.627	EPA8021
Solids		86		06/16/03	0.1	SM18 2540G
active cyanide	mg/Kg	< 2.3		06/16/03	2.3255	EPA335.3
lfide as S	mg/Kg	< 2.3		06/16/03	2.3255	EPA376.2
ash Point deg C		> 100		06/16/03	25	EPA1010
(lab) units		7.6		06/16/03	0.1	EPA9045C
trol. Hydrocarbons	mg/Kg	730		06/16/03	27.906	EPA418.1
t.Organic Halogens	mg/Kg	< 12	*	06/17/03	11.627	EPA9020B

cc:

LRL=laboratory Reporting Limit

REMARKS: * Anaylsis was performed by ELAP Lab #11693.
**Elevated detection limit due to sample interference.

DIRECTOR

rn = 23606 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008 PO#:
ATTN: Bill Ireland

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil SAMPLE: HPSA#2-01B
HPSA#2-01B

Results reported on a dry weight basis

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
hthalene(sv)	ug/Kg	13000		06/16/03	3488.3	EPA8270
lethylnaphthalene	ug/Kg	60000		06/16/03	3488.3	EPA8270
naphthylene	ug/Kg	4400		06/16/03	3488.3	EPA8270
naphthene	ug/Kg	5900		06/16/03	3488.3	EPA8270
orene	ug/Kg	20000		06/16/03	3488.3	EPA8270
nanthrene	ug/Kg	120000		06/16/03	3488.3	EPA8270
hracene	ug/Kg	9700		06/16/03	3488.3	EPA8270
ranthene	ug/Kg	56000		06/16/03	3488.3	EPA8270
e	ug/Kg	67000		06/16/03	3488.3	EPA8270
zo(a)anthracene	ug/Kg	23000		06/16/03	3488.3	EPA8270
ysene	ug/Kg	24000		06/16/03	3488.3	EPA8270
zo(b)fluoranthene	ug/Kg	16000	*	06/16/03	3488.3	EPA8270
zo(k)fluoranthene	ug/Kg	16000	*	06/16/03	3488.3	EPA8270
zo(a)pyrene	ug/Kg	17000		06/16/03	3488.3	EPA8270
eno(1,2,3-cd)pyrene	ug/Kg	7900		06/16/03	3488.3	EPA8270
benzo(a,h)anthracene	ug/Kg	< 3500		06/16/03	3488.3	EPA8270
zo(ghi)perylene	ug/Kg	8300		06/16/03	3488.3	EPA8270

cc

LRL=laboratory Reporting Limit

REMARKS: *Total = 32000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 23607 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232892.03 06/17/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01C
HPSA#2-01C
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
bon Tetrachloride	ug/L	< 10		06/16/03	10	EPA8260
orobenzene	ug/L	< 10		06/16/03	10	EPA8260
oroform	ug/L	< 10		06/16/03	10	EPA8260
Dichlorobenzene (v)	ug/L	< 10		06/16/03	10	EPA8260
Dichloroethane	ug/L	< 10		06/16/03	10	EPA8260
Dichloroethene	ug/L	< 10		06/16/03	10	EPA8260
hyl Ethyl Ketone	ug/L	< 100		06/16/03	100	EPA8260
rachloroethene	ug/L	< 10		06/16/03	10	EPA8260
loroethylene	ug/L	< 10		06/16/03	10	EPA8260
yl Chloride	ug/L	< 10		06/16/03	10	EPA8260
zene	ug/L	< 10		06/16/03	10	EPA8260
P Zero Headspace Extract				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23608 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01C
HPSA#2-01C
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
dane	ug/L	< 0.5		06/17/03	0.5	EPA8081
rin	ug/L	< 0.5		06/16/03	0.5	EPA8081
hoxychlor	ug/L	< 1		06/16/03	1	EPA8081
aphene	ug/L	< 10		06/16/03	10	EPA8081
ordane	ug/L	< 2		06/16/03	2	EPA8081
tachlor	ug/L	< 0.5		06/16/03	0.5	EPA8081
tachlor Epoxide	ug/L	< 0.5		06/17/03	0.5	EPA8081
-D	ug/L	< 1		06/17/03	1	EPA8151
-TP	ug/L	< 0.5		06/17/03	0.5	EPA8151
ethylphenol (p-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ethylphenol (m-cresol)	ug/L	< 10		06/16/03	10	EPA8270
ethylphenol (o-cresol)	ug/L	< 10		06/16/03	10	EPA8270
tachlorophenol (ms)	ug/L	< 100		06/16/03	100	EPA8270
,5-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
,6-Trichlorophenol	ug/L	< 10		06/16/03	10	EPA8270
-Dinitrotoluene	ug/L	< 10		06/16/03	10	EPA8270
achlorobenzene	ug/L	< 10		06/16/03	10	EPA8270
achlorobutadiene	ug/L	< 10		06/16/03	10	EPA8270
achloroethane	ug/L	< 10		06/16/03	10	EPA8270
robenzene	ug/L	< 10		06/16/03	10	EPA8270
idine	ug/L	< 10		06/16/03	10	EPA8270
P Extraction				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 23609

NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.212892.03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Extract SAMPLE: HPSA#2-01C
HPSA#2-01C
TCLP

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
enic as As	mg/L	< 0.05		06/17/03	0.05	EPA6010
ium as Ba	mg/L	0.25	*	06/17/03	0.05	EPA6010
mium as Cd	mg/L	< 0.05		06/17/03	0.05	EPA6010
omium as Cr	mg/L	< 0.05		06/17/03	0.05	EPA6010
d as Pb	mg/L	0.45		06/17/03	0.05	EPA6010
cury as Hg	mg/L	< 0.001		06/17/03	0.001	EPA7470A
enium as Se	mg/L	< 0.1		06/17/03	0.1	EPA6010
ver as Ag	mg/L	< 0.05		06/17/03	0.05	EPA6010
Extraction				06/15/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS: * Blank corrected Analyte.

DIRECTOR

rn = 23610 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.212892.03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil

SAMPLE: HPSA#2-01C
HPSA#2-01C

Results reported on a dry weight basis

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
clor 1016	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1221	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1232	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1242	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1248	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1254	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
clor 1260	ug/Kg	< 240	**	06/17/03	235.29	EPA8082
ene	ug/Kg	27		06/16/03	11.764	EPA8021
uene	ug/Kg	49		06/16/03	11.764	EPA8021
yl Benzene	ug/Kg	24		06/16/03	11.764	EPA8021
p Xylene	ug/Kg	150		06/16/03	23.529	EPA8021
Xylene	ug/Kg	270		06/16/03	11.764	EPA8021
olids		85		06/16/03	0.1	SM182540G
ctive cyanide	mg/Kg	< 2.4		06/17/03	2.3529	EPA335.3
fide as S	mg/Kg	< 2.4		06/16/03	2.3529	EPA376.2
sh Point deg C		> 100		06/16/03	25	EPA1010
(lab) units		7.5		06/16/03	0.1	EPA9045C
rol. Hydrocarbons	mg/Kg	950		06/16/03	28.235	EPA418.1
.Organic Halogens	mg/Kg	< 12	*	06/17/03	11.764	EPA9020B

cc:

LRL=laboratory Reporting Limit

REMARKS: * Anaylsis was performed by ELAP Lab #11693.
**Elevated detection limit due to sample interference.

DIRECTOR

rn = 23611

NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

06/17/03

LAB NO.232892.03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client
DATE COL'D:06/11/03 RECEIVED:06/13/03
TIME COL'D:0600

MATRIX:Soil

SAMPLE: HPSA#2-01C
HPSA#2-01C

Results reported on a dry weight basis

LYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
hthalene(sv)	ug/Kg	94000		06/16/03	35294.	EPA8270
ethylnaphthalene	ug/Kg	240000		06/16/03	35294.	EPA8270
naphthylene	ug/Kg	14000		06/16/03	3529.4	EPA8270
naphthene	ug/Kg	15000		06/16/03	3529.4	EPA8270
orene	ug/Kg	49000		06/16/03	3529.4	EPA8270
nanthrene	ug/Kg	330000		06/16/03	35294.	EPA8270
hracene	ug/Kg	31000		06/16/03	3529.4	EPA8270
oranthene	ug/Kg	130000		06/16/03	35294.	EPA8270
e	ug/Kg	160000		06/16/03	35294.	EPA8270
zo(a)anthracene	ug/Kg	59000		06/16/03	3529.4	EPA8270
ysene	ug/Kg	65000		06/16/03	3529.4	EPA8270
zo(b)fluoranthene	ug/Kg	52000	*	06/16/03	3529.4	EPA8270
zo(k)fluoranthene	ug/Kg	52000	*	06/16/03	3529.4	EPA8270
zo(a)pyrene	ug/Kg	45000		06/16/03	3529.4	EPA8270
eno(1,2,3-cd)pyrene	ug/Kg	16000		06/16/03	3529.4	EPA8270
enzo(a,h)anthracene	ug/Kg	5800		06/16/03	3529.4	EPA8270
zo(ghi)perylene	ug/Kg	15000		06/16/03	3529.4	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: *Total =104000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 23612

NYSDOH ID # 10320

ECO TES LABORATORIES, INC. • ENVIRONMENTAL TESTIN

377 Sheffield Avenue, North Babylon, New York 11703
(631) 422-5777 • FAX (631) 422-5770

CHAIN OF CUSTODY RECORD

Client: Core Environmental Services
Address: 400 Middlesex Ave
Chatham NJ
Phone: 732 969-1700 FAX: 732 969-3701
Person receiving report: Bill Deluca
Sampled by: Core
Source:
Job No.:

& also fax results to: Casie Pic Tak (client) fax # 858-696-7065 and Chris Gaza (client assist) fax # 302-427-0634

MATRIX (Soil, Water, etc.)	COLLECTED DATE	COLLECTED TIME	SAMPLE IDENTIFICATION	TOTAL NUMBER OF CONTAINERS	Full TCLP	PCB	RCRA characteristics	TPH	PAH	REMARKS–TESTS REQUIRED, SPECIAL TURNAROUND, SPECIAL Q.C. etc
Soil	5/4/03	11:35	HPSA#35 - 01A	3	X	X	X	X	X	4 DAY TAT
Soil	5/4/03	11:43	HPSA#35 - 01B	3	X	X	X	X	X	

Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:
	5/1/03						
Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:	Relinquished by: (Signature) / Representing:	DATE/TIME	SEAL INTACT? YES NO NA	Received by: (Signature) / Representing:

PILE #3

[illegible] Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.01 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1115

MATRIX:Extract SAMPLE: HPSA#35-01A
HPSA#35-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		05/16/03	10	EPA8260
Chlorobenzene	ug/L	< 10		05/16/03	10	EPA8260
Chloroform	ug/L	< 10		05/16/03	10	EPA8260
1.4 Dichlorobenzene (v)	ug/L	< 10		05/16/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		05/16/03	10	EPA8260
1,1 Dichloroethene	ug/L	< 10		05/16/03	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 100		05/16/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		05/16/03	10	EPA8260
Trichloroethylene	ug/L	< 10		05/16/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		05/16/03	10	EPA8260
Benzene	ug/L	< 10		05/16/03	10	EPA8260
TCLP Zero Headspace Extract				05/15/03		EPA1311

VOC QCQA

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20048 NYSDOH ID # 10320

377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.01 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1115

MATRIX:Extract SAMPLE: HPSA#35-01A
HPSA#35-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		05/19/03	0.05	EPA6010
Barium as Ba	mg/L	0.33		05/19/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		05/19/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		05/19/03	0.05	EPA6010
Lead as Pb	mg/L	0.061		05/19/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		05/20/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		05/19/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		05/19/03	0.05	EPA6010
TCLP Extraction				05/15/03		EPA1311

Metals, QCQA

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20049 NYSDOH ID # 10320

Accutest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.01 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1115
MATRIX:Extract SAMPLE: HPSA#35-01A
HPSA#35-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		05/18/03	0.5	EPA8081
Endrin	ug/L	< 0.5		05/18/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		05/18/03	1	EPA8081
Toxaphene	ug/L	< 10		05/18/03	10	EPA8081
Chlordane	ug/L	< 2		05/18/03	2	EPA8081
Heptachlor	ug/L	< 0.5		05/18/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		05/18/03	0.5	EPA8081
2,4-D	ug/L	< 1		05/20/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		05/20/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	16		05/19/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	34	#	05/19/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	34	#	05/19/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		05/19/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		05/19/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		05/19/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		05/19/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		05/19/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		05/19/03	10	EPA8270
Hexachloroethane	ug/L	< 10		05/19/03	10	EPA8270
Nitrobenzene	ug/L	< 10		05/19/03	10	EPA8270
Pyridine	ug/L	13		05/19/03	10	EPA8270
TCLP Extraction				05/05/03		EPA1311

cc:Casle, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS: #Total = 68 ug/L, ubable to separate isomers.

DIRECTOR

rn = 20050 NYSDOH ID # 10320

[illegible] Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.01 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1115
MATRIX:Soil SAMPLE: HPSA#35-01A
HPSA#35-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1221	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1232	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1242	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1248	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1254	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1260	ug/Kg	< 46		05/20/03	45.977	EPA8082
Peat QAQC						
% Solids		87		05/16/03	0.1	SM182540G
Flash Point deg C		> 100		05/16/03	25	EPA1010
Reactive cyanide	mg/Kg	< 2.3		05/16/03	2.2988	EPA335.4
Sulfide as S	mg/Kg	< 2.3		05/19/03	2.2988	EPA376.2
pH (lab) units		5.9		05/16/03	0.1	EPA9045C
Petrol. Hydrocarbons	mg/Kg	340		05/20/03	27.586	EPA418.1
Quality Control						

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

[illegible] Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.01 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1115

MATRIX:Soil SAMPLE: HPSA#35-01A
HPSA#35-01A
Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	5100		05/20/03	3448.2	EPA8270
2-Methylnaphthalene	ug/Kg	< 3400		05/20/03	3448.2	EPA8270
Acenaphthylene	ug/Kg	< 3400		05/20/03	3448.2	EPA8270
Acenaphthene	ug/Kg	< 3400		05/20/03	3448.2	EPA8270
Fluorene	ug/Kg	10000		05/20/03	3448.2	EPA8270
Phenanthrene	ug/Kg	36000		05/20/03	3448.2	EPA8270
Anthracene	ug/Kg	11000		05/20/03	3448.2	EPA8270
Fluoranthene	ug/Kg	31000		05/20/03	3448.2	EPA8270
Pyrene	ug/Kg	22000		05/20/03	3448.2	EPA8270
Benzo(a)anthracene	ug/Kg	10000		05/20/03	3448.2	EPA8270
Chrysene	ug/Kg	9500		05/20/03	3448.2	EPA8270
Benzo(b)fluoranthene	ug/Kg	6900	*	05/20/03	3448.2	EPA8270
Benzo(k)fluoranthene	ug/Kg	6900	*	05/20/03	3448.2	EPA8270
Benzo(a)pyrene	ug/Kg	7900		05/20/03	3448.2	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	4000		05/20/03	3448.2	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	<-3400		05/20/03	3448.2	EPA8270
Benzo(ghi)perylene	ug/Kg	4800		05/20/03	3448.2	EPA8270

Base Neutrals QAQC

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS: *Total = 13800 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 20052 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.02 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1145

MATRIX:Extract SAMPLE: HPSA#35-01B
HPSA#35-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		05/16/03	10	EPA8260
Chlorobenzene	ug/L	< 10		05/16/03	10	EPA8260
Chloroform	ug/L	< 10		05/16/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		05/16/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		05/16/03	10	EPA8260
1,1 Dichloroethene	ug/L	< 10		05/16/03	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 100		05/16/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		05/16/03	10	EPA8260
Trichloroethylene	ug/L	< 10		05/16/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		05/16/03	10	EPA8260
Benzene	ug/L	< 10		05/16/03	10	EPA8260
TCLP Zero Headspace Extract				05/15/03		EPA1311

VOC QCQA

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20053 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.02 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1145

MATRIX:Extract SAMPLE: HPSA#35-01B
HPSA#35-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		05/19/03	0.05	EPA6010
Barium as Ba	mg/L	0.31		05/19/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		05/19/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		05/19/03	0.05	EPA6010
Lead as Pb	mg/L	0.086		05/19/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		05/20/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		05/19/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		05/19/03	0.05	EPA6010
TCLP Extraction				05/15/03		EPA1311

Metals, QCQA

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20054 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.02 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Harry Elias PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1145

MATRIX:Extract SAMPLE: HPSA#35-01B
HPSA#35-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		05/18/03	0.5	EPA8081
Endrin	ug/L	< 0.5		05/18/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		05/18/03	1	EPA8081
Toxaphene	ug/L	< 10		05/18/03	10	EPA8081
Chlordane	ug/L	< 2		05/18/03	2	EPA8081
Heptachlor	ug/L	< 0.5		05/18/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		05/18/03	0.5	EPA8081
2,4-D	ug/L	< 1		05/20/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		05/20/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	11		05/19/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	11	#	05/19/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	11	#	05/19/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		05/19/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		05/19/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		05/19/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		05/19/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		05/19/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		05/19/03	10	EPA8270
Hexachloroethane	ug/L	< 10		05/19/03	10	EPA8270
Nitrobenzene	ug/L	< 10		05/19/03	10	EPA8270
Pyridine	ug/L	18		05/19/03	10	EPA8270
TCLP Extraction				05/05/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 22 ug/L, unable to separate isomers.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.02 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1145
MATRIX:Soil SAMPLE: HPSA#35-01B
HPSA#35-01B
Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1221	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1232	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1242	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1248	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1254	ug/Kg	< 46		05/20/03	45.977	EPA8082
Aroclor 1260	ug/Kg	< 46		05/20/03	45.977	EPA8082
Pest QAQC						
% Solids		87		05/16/03	0.1	SM182540G
Flash Point deg C		> 100		05/16/03	25	EPA1010
Reactive cyanide	mg/Kg	< 2.3		05/16/03	2.2988	EPA335.4
Sulfide as S	mg/Kg	< 2.3		05/19/03	2.2988	EPA376.2
pH (lab) units		7.1		05/16/03	0.1	EPA9045C
Petrol. Hydrocarbons	mg/Kg	700		05/20/03	27.586	EPA418.1
Quality Control						

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn # 20056 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232391.02 05/20/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Code Environmental Services
SOURCE OF SAMPLE: Iroquois
COLLECTED BY: Client DATE COL'D:05/14/03 RECEIVED:05/15/03
TIME COL'D:1145

MATRIX:Soil SAMPLE: HPSA#35-01B
HPSA#35-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	49000		05/20/03	3448.2	EPA8270
2-Methylnaphthalene	ug/Kg	18000		05/20/03	3448.2	EPA8270
Acenaphthylene	ug/Kg	21000		05/20/03	3448.2	EPA8270
Acenaphthene	ug/Kg	8900		05/20/03	3448.2	EPA8270
Fluorene	ug/Kg	39000		05/20/03	3448.2	EPA8270
Phenanthrene	ug/Kg	100000		05/20/03	3448.2	EPA8270
Anthracene	ug/Kg	36000		05/20/03	3448.2	EPA8270
Fluoranthene	ug/Kg	85000		05/20/03	3448.2	EPA8270
Pyrene	ug/Kg	57000		05/20/03	3448.2	EPA8270
Benzo(a)anthracene	ug/Kg	28000		05/20/03	3448.2	EPA8270
Chrysene	ug/Kg	25000		05/20/03	3448.2	EPA8270
Benzo(b)fluoranthene	ug/Kg	18000	*	05/20/03	3448.2	EPA8270
Benzo(k)fluoranthene	ug/Kg	18000	*	05/20/03	3448.2	EPA8270
Benzo(a)pyrene	ug/Kg	22000		05/20/03	3448.2	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	9000		05/20/03	3448.2	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 3400		05/20/03	3448.2	EPA8270
Benzo(ghi)perylene	ug/Kg	9000		05/20/03	3448.2	EPA8270

Base Neutrals QAQC

cc:Casie, 856-696-7065
Carl Elliot, 302-427-6634

LRL=laboratory Reporting Limit

REMARKS: *Total = 36000 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 20057 NYSDOH ID # 10320

CO [illegible] T LABORATORIES, INC. • ENVIRONMENTAL TESTIN
7 Sheffield Avenue, North Babylon, New York 11703
31) 422-5777 • FAX (631) 422-5770

CHAIN OF CUSTODY RECORD

nt: CODE ENV. SERVICES
ress: 400 MIDDLESEX AVE
CARTERET, NJ
ne: 732-969-2700 FAX: 732-969-2701 *
son receiving report: BILL IRELAND
npled by: CODE
rce:
No.: 8150 - HUNTS POINT, NY AREA

* PLEASE ALSO FAX RESULTS TO:
856-696-7065
NEED FAXES ON MAY 28th

	COLLECTED		SAMPLE IDENTIFICATION		Full TCLP	PCB	RCRA characteristics	TPH	Part	REMARKS—TESTS REQUIRED— SPECIAL TURNAROUND, SPECIAL QA/QC, etc.
	DATE	TIME								
soil	5/1/03	7:00	HPSA #4S - 01A	3	X	X	X	X	X	
soil	5/1/03	7:40	HPSA #4S - 01B	3	X	X	X	X	X	4 DAY TAT
soil	5/1/03	7:55	HPSA #4S - 01C	3	X	X	X	X	X	

Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing:	5/1/03 7:45 PM	YES NO NA	Representing:	Representing:		YES NO NA	Representing:
Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)	Relinquished by: (Signature)	DATE/TIME	SEAL INTACT?	Received by: (Signature)
Representing:		YES NO NA	Representing:	Representing:		YES NO NA	

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.01 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0720
MATRIX:Extract SAMPLE: HPSA#45-01A
HPSA#45-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		05/29/03	10	EPA8260
Chlorobenzene	ug/L	< 10		05/29/03	10	EPA8260
Chloroform	ug/L	< 10		05/29/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		05/29/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		05/29/03	10	EPA8260
,1 Dichloroethene	ug/L	< 10		05/29/03	10	EPA8260
ethyl Ethyl Ketone	ug/L	< 100		05/29/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		05/29/03	10	EPA8260
Trichloroethylene	ug/L	< 10		05/29/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		05/29/03	10	EPA8260
Benzene	ug/L	< 10		05/29/03	10	EPA8260
TCLP Zero Headspace Extract				05/22/03		EPA1311

VOC QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20923 NYSDOH ID # 10320

MAY.29.2003 1:54PM CODE ENVIRONMENTAL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.01 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0720
MATRIX:Extract SAMPLE: HPSA#45-01A
HPSA#45-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		05/27/03	0.5	EPA8081
Endrin	ug/L	< 0.5		05/27/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		05/27/03	1	EPA8081
Toxaphene	ug/L	< 10		05/27/03	10	EPA8081
Chlordane	ug/L	< 2		05/27/03	2	EPA8081
Heptachlor	ug/L	< 0.5		05/27/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		05/27/03	0.5	EPA8081
2,4-D	ug/L	< 1		05/28/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		05/28/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		05/27/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		05/27/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		05/27/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		05/27/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		05/27/03	10	EPA8270
Hexachloroethane	ug/L	< 10		05/27/03	10	EPA8270
Nitrobenzene	ug/L	< 10		05/27/03	10	EPA8270
Pyridine	ug/L	< 10		05/27/03	10	EPA8270
TCLP Extraction				05/22/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.01 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0720
MATRIX:Extract SAMPLE: HPSA#45-01A
HPSA#45-01A
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		05/27/03	0.05	EPA6010
Barium as Ba	mg/L	0.29	*	05/27/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		05/27/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		05/27/03	0.05	EPA6010
Lead as Pb	mg/L	0.66		05/27/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		05/28/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		05/27/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		05/27/03	0.05	EPA6010
TCLP Extraction				05/22/03		EPA1311

Metals, QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS: *Blank corrected.

DIRECTOR

rn = 20925 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.01 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0720
MATRIX:Soil SAMPLE: HPSA#45-01A
HPSA#45-01A
Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	11000		05/28/03	3370.7	EPA8270
2-Methylnaphthalene	ug/Kg	4200		05/28/03	3370.7	EPA8270
Acenaphthylene	ug/Kg	4200		05/28/03	3370.7	EPA8270
Acenaphthene	ug/Kg	7400		05/28/03	3370.7	EPA8270
Fluorene	ug/Kg	20000		05/28/03	3370.7	EPA8270
Phenanthrene	ug/Kg	71000		05/28/03	3370.7	EPA8270
Anthracene	ug/Kg	25000		05/28/03	3370.7	EPA8270
Fluoranthene	ug/Kg	64000		05/28/03	3370.7	EPA8270
Pyrene	ug/Kg	53000		05/28/03	3370.7	EPA8270
Benzo(a)anthracene	ug/Kg	22000		05/28/03	3370.7	EPA8270
Chrysene	ug/Kg	21000		05/28/03	3370.7	EPA8270
Benzo(b)fluoranthene	ug/Kg	15000	#	05/28/03	3370.7	EPA8270
Benzo(k)fluoranthene	ug/Kg	15000	#	05/28/03	3370.7	EPA8270
Benzo(a)pyrene	ug/Kg	19000		05/28/03	3370.7	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	7600		05/28/03	3370.7	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	2600	$	05/28/03	3370.7	EPA8270
Benzo(ghi)perylene	ug/Kg	8100		05/28/03	3370.7	EPA8270

Base Neutrals QAQC

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 30000 ug/Kg, unable to separate isomers.
$Reported below quantification.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.01 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0720
MATRIX:Soil SAMPLE: HPSA#45-01A
HPSA#45-01A

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1221	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1232	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1242	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1248	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1254	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1260	ug/Kg	99		05/28/03	44.943	EPA8082
Post QAQC						
% Solids		89		05/23/03	0.1	SM182540G
Flash Point deg C		> 100		05/23/03	25	EPA1010
pH (lab) units		7.7		05/22/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.2		05/27/03	2.2471	EPA335.4
Sulfide as S	mg/Kg	< 2.2		05/27/03	2.2471	EPA376.2
Petrol. Hydrocarbons	mg/Kg	460		05/29/03	2.2471	EPA418.1
Quality Control						

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rm = 20927 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.02 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0740
MATRIX:Extract SAMPLE: HPSA#45-01B
HPSA#45-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		05/29/03	10	EPA8260
Chlorobenzene	ug/L	< 10		05/29/03	10	EPA8260
Chloroform	ug/L	< 10		05/29/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		05/29/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		05/29/03	10	EPA8260
1,1 Dichloroethene	ug/L	< 10		05/29/03	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 100		05/29/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		05/29/03	10	EPA8260
Trichloroethylene	ug/L	< 10		05/29/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		05/29/03	10	EPA8260
Benzene	ug/L	< 10		05/29/03	10	EPA8260
TCLP Zero Headspace Extract				05/22/03		EPA1311

VOC QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20928 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.02 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0740
MATRIX:Extract SAMPLE: HPSA#45-01B
HPSA#45-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		05/27/03	0.5	EPA8081
Endrin	ug/L	< 0.5		05/27/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		05/27/03	1	EPA8081
Toxaphene	ug/L	< 10		05/27/03	10	EPA8081
Chlordane	ug/L	< 2		05/27/03	2	EPA8081
Heptachlor	ug/L	< 0.5		05/27/03	0.5	EPA8081
eptachlor Epoxide	ug/L	< 0.5		05/27/03	0.5	EPA8081
2,4-D	ug/L	< 1		05/28/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		05/28/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		05/27/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		05/27/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		05/27/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		05/27/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		05/27/03	10	EPA8270
Hexachloroethane	ug/L	< 10		05/27/03	10	EPA8270
Nitrobenzene	ug/L	< 10		05/27/03	10	EPA8270
Pyridine	ug/L	< 10		05/27/03	10	EPA8270
TCLP Extraction				05/23/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.02 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0740
MATRIX:Extract SAMPLE: HPSA#45-01B
HPSA#45-01B
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		05/27/03	0.05	EPA6010
Barium as Ba	mg/L	0.18	*	05/27/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		05/27/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		05/27/03	0.05	EPA6010
Lead as Pb	mg/L	0.46		05/27/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		05/28/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		05/27/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		05/27/03	0.05	EPA6010
TCLP Extraction				05/22/03		EPA1311

Metals, QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS: *Blank corrected.

DIRECTOR

rn = 20930 NYSDOH ID # 10320 Page 3 of 5

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.02 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0740
MATRIX:Soil SAMPLE: HPSA#45-01B
HPSA#45-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	8800		05/28/03	3703.7	EPA8270
2-Methylnaphthalene	ug/Kg	3100	$	05/28/03	3703.7	EPA8270
Acenaphthylene	ug/Kg	4000		05/28/03	3703.7	EPA8270
Acenaphthene	ug/Kg	5700		05/28/03	3703.7	EPA8270
Fluorene	ug/Kg	17000		05/28/03	3703.7	EPA8270
Phenanthrene	ug/Kg	64000		05/28/03	3703.7	EPA8270
Anthracene	ug/Kg	21000		05/28/03	3703.7	EPA8270
Fluoranthene	ug/Kg	59000		05/28/03	3703.7	EPA8270
Pyrene	ug/Kg	51000		05/28/03	3703.7	EPA8270
Benzo(a)anthracene	ug/Kg	22000		05/28/03	3703.7	EPA8270
Chrysene	ug/Kg	21000		05/28/03	3703.7	EPA8270
Benzo(b)fluoranthene	ug/Kg	14000	#	05/28/03	3703.7	EPA8270
Benzo(k)fluoranthene	ug/Kg	14000	#	05/28/03	3703.7	EPA8270
Benzo(a)pyrene	ug/Kg	20000		05/28/03	3703.7	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	7700		05/28/03	3703.7	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	2300	$	05/28/03	3703.7	EPA8270
Benzo(ghi)perylene	ug/Kg	8500		05/28/03	3703.7	EPA8270

Base Neutrals QAQC

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 28000 ug/Kg, unable to separate isomers.
$Reported below quantification.

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.02 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0740
MATRIX:Soil SAMPLE: HPSA#45-01B
HPSA#45-01B

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1221	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1232	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1242	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1248	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1254	ug/Kg	< 49		05/28/03	49.382	EPA8082
Aroclor 1260	ug/Kg	220		05/28/03	49.382	EPA8082
Pest QAQC						
% Solids		81		05/23/03	0.1	SM182540G
Flash Point deg C		> 100		05/23/03	25	EPA1010
pH (lab) units		7.8		05/22/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.5		05/27/03	2.4691	EPA335.4
Sulfide as S	mg/Kg	< 2.5		05/27/03	2.4691	EPA376.2
Petrol. Hydrocarbons	mg/Kg	680		05/29/03	2.4691	EPA418.1
Quality Control						

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20932 NYSDOH ID # 10320

MAY.29.2003 1:58PM CODE ENVIRONMENTAL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.03 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0755
MATRIX:Extract SAMPLE: HPSA#45-01C
HPSA#45-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		05/29/03	10	EPA8260
Chlorobenzene	ug/L	< 10		05/29/03	10	EPA8260
Chloroform	ug/L	< 10		05/29/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		05/29/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		05/29/03	10	EPA8260
,1 Dichloroethene	ug/L	< 10		05/29/03	10	EPA8260
ethyl Ethyl Ketone	ug/L	< 100		05/29/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		05/29/03	10	EPA8260
Trichloroethylene	ug/L	< 10		05/29/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		05/29/03	10	EPA8260
Benzene	ug/L	< 10		05/29/03	10	EPA8260
TCLP Zero Headspace Extract				05/22/03		EPA1311

VOC QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 20933 NYSDOH ID # 10320

MAY.29.2003 1:58PM CODE ENVIRONMENTAL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.03 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0755
MATRIX:Extract SAMPLE: HPSA#45-01C
HPSA#45-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		05/27/03	0.5	EPA8081
Endrin	ug/L	< 0.5		05/27/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		05/27/03	1	EPA8081
Toxaphene	ug/L	< 10		05/27/03	10	EPA8081
Chlordane	ug/L	< 2		05/27/03	2	EPA8081
Heptachlor	ug/L	< 0.5		05/27/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		05/27/03	0.5	EPA8081
2,4-D	ug/L	< 1		05/28/03	1	EPA8151
2,4,5-TP	ug/L	< 0.5		05/28/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		05/27/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		05/27/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		05/27/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		05/27/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		05/27/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		05/27/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		05/27/03	10	EPA8270
Hexachloroethane	ug/L	< 10		05/27/03	10	EPA8270
Nitrobenzene	ug/L	< 10		05/27/03	10	EPA8270
Pyridine	ug/L	< 10		05/27/03	10	EPA8270
TCLP Extraction				05/22/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

MAY.29.2003 1:58PM CODE ENVIRONMENTAL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.03 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0755
MATRIX:Extract SAMPLE: HPSA#45-01C
HPSA#45-01C
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.05		05/27/03	0.05	EPA6010
Barium as Ba	mg/L	0.36	*	05/27/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		05/27/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		05/27/03	0.05	EPA6010
Lead as Pb	mg/L	1.2		05/27/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		05/28/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		05/27/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		05/27/03	0.05	EPA6010
TCLP Extraction				05/22/03		EPA1311

Metals, QCQA

cc:

LRL=laboratory Reporting Limit

REMARKS: *Blank corrected.

DIRECTOR

rn = 20935 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.03 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0755
MATRIX:Soil SAMPLE: HPSA#45-01C
HPSA#45-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	11000		05/28/03	3370.7	EPA8270
2-Methylnaphthalene	ug/Kg	4600		05/28/03	3370.7	EPA8270
Acenaphthylene	ug/Kg	4400		05/28/03	3370.7	EPA8270
Acenaphthene	ug/Kg	6900		05/28/03	3370.7	EPA8270
Fluorene	ug/Kg	19000		05/28/03	3370.7	EPA8270
Phenanthrene	ug/Kg	62000		05/28/03	3370.7	EPA8270
Anthracene	ug/Kg	20000		05/28/03	3370.7	EPA8270
Fluoranthene	ug/Kg	55000		05/28/03	3370.7	EPA8270
Pyrene	ug/Kg	45000		05/28/03	3370.7	EPA8270
Benzo(a)anthracene	ug/Kg	20000		05/28/03	3370.7	EPA8270
Chrysene	ug/Kg	19000		05/28/03	3370.7	EPA8270
Benzo(b)fluoranthene	ug/Kg	14000	#	05/28/03	3370.7	EPA8270
Benzo(k)fluoranthene	ug/Kg	14000	#	05/28/03	3370.7	EPA8270
Benzo(a)pyrene	ug/Kg	18000		05/28/03	3370.7	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	7000		05/28/03	3370.7	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	2200	$	05/28/03	3370.7	EPA8270
Benzo(ghi)perylene	ug/Kg	7900		05/28/03	3370.7	EPA8270

Base Neutrals QAQC

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 28000 ug/Kg, unable to separate isomers.
$Reported below quantification.

DIRECTOR

MAY.29.2003 1:56PM CODE ENVIRONMENTAL

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.232494.03 05/29/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: 8150 Hunts Point
SOURCE OF SAMPLE: 8150 Hunts Point
COLLECTED BY: Client DATE COL'D:05/21/03 RECEIVED:05/22/03
TIME COL'D:0755
MATRIX:Soil SAMPLE: HPSA#45-01C
HPSA#45-01C

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1221	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1232	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1242	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1248	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1254	ug/Kg	< 45		05/28/03	44.943	EPA8082
Aroclor 1260	ug/Kg	190		05/28/03	44.943	EPA8082
Pest QAQC						
% Solids		89		05/23/03	0.1	SM18#2540G
Flash Point deg C		> 100		05/23/03	25	EPA1010
pH (lab) units		7.8		05/22/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.2		05/27/03	2.2471	EPA335.4
Sulfide as S	mg/Kg	< 2.2		05/27/03	2.2471	EPA376.2
Petrol. Hydrocarbons	mg/Kg	810		05/29/03	2.2471	EPA418.1
Quality Control						

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon. NY 11703
631 422-5777

LAB NO.233095.01 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1450
MATRIX:Extract SAMPLE: SA#4 Special
SA#4 Special
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		06/27/03	10	EPA8260
Chlorobenzene	ug/L	< 10		06/27/03	10	EPA8260
Chloroform	ug/L	< 10		06/27/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		06/27/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		06/27/03	10	EPA8260
1,1 Dichloroethene	ug/L	< 10		06/27/03	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 100		06/27/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		06/27/03	10	EPA8260
Trichloroethylene	ug/L	< 10		06/27/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		06/27/03	10	EPA8260
Benzene	ug/L	< 10		06/27/03	10	EPA8260
TCLP Zero Headspace Extract				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25455 NYSDOH ID # 10920

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO:233095.01 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1450
MATRIX:Extract SAMPLE: SA#4 Special
SA#4 Special
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		06/26/03	0.5	EPA8081
Endrin	ug/L	< 0.5		06/26/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		06/26/03	1	EPA8081
Toxaphene	ug/L	< 10		06/26/03	10	EPA8081
Chlordane	ug/L	< 2		06/26/03	2	EPA8081
Heptachlor	ug/L	< 0.5		06/26/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		06/26/03	0.5	EPA8081
2,4-D	ug/L	< 100		06/28/03	100	EPA8151
2,4,5-TP	ug/L	< 0.5		06/27/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		06/27/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		06/27/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		06/27/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		06/27/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		06/27/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		06/27/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		06/27/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		06/27/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		06/27/03	10	EPA8270
Hexachloroethane	ug/L	< 10		06/27/03	10	EPA8270
Nitrobenzene	ug/L	< 10		06/27/03	10	EPA8270
Pyridine	ug/L	140		06/27/03	10	EPA8270
TCLP Extraction				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.01 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1450
MATRIX:Extract SAMPLE: SA#4 Special
SA#4 Special
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.25		06/30/03	0.25	EPA6010
Barium as Ba	mg/L	< 0.05		06/27/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		06/27/03	0.05	EPA6010
Chromium as Cr	mg/L	0.36		06/27/03	0.05	EPA6010
Lead as Pb	mg/L	< 0.05		06/27/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		06/27/03	0.001	EPA7470A
Selenium as Se	mg/L	< 1		06/30/03	1	EPA6010
Silver as Ag	mg/L	< 0.05		06/27/03	0.05	EPA6010
TCLP Extraction				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25457 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.01 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1450

MATRIX:Soil SAMPLE: SA#4 Special
SA#4 Special
Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	740		06/27/03	416.66	EPA8270
2-Methylnaphthalene	ug/Kg	960		06/27/03	416.66	EPA8270
Acenaphthylene	ug/Kg	890		06/27/03	416.66	EPA8270
Acenaphthene	ug/Kg	< 420		06/27/03	416.66	EPA8270
Fluorene	ug/Kg	3200		06/27/03	416.66	EPA8270
Phenanthrene	ug/Kg	14000		06/27/03	416.66	EPA8270
Anthracene	ug/Kg	3800		06/27/03	416.66	EPA8270
Fluoranthene	ug/Kg	6500		06/27/03	416.66	EPA8270
Pyrene	ug/Kg	6500		06/27/03	416.66	EPA8270
Benzo(a)anthracene	ug/Kg	3500		06/27/03	416.66	EPA8270
Chrysene	ug/Kg	3200		06/27/03	416.66	EPA8270
Benzo(b)fluoranthene	ug/Kg	2200	#	06/27/03	416.66	EPA8270
Benzo(k)fluoranthene	ug/Kg	2200	#	06/27/03	416.66	EPA8270
Benzo(a)pyrene	ug/Kg	2500		06/27/03	416.66	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	1100		06/27/03	416.66	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	490		06/27/03	416.66	EPA8270
Benzo(ghi)perylene	ug/Kg	1100		06/27/03	416.66	EPA8270
% Solids		72		06/27/03	0.1	SM18#2540G

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 4400 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 25458 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.01 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1450
MATRIX:Soil SAMPLE: SA#4 Special
SA#4 Special
Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1221	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1232	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1242	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1248	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1254	ug/Kg	< 56		06/27/03	55.555	EPA8082
Aroclor 1260	ug/Kg	< 56		06/27/03	55.555	EPA8082
Flash Point deg C		> 100		06/27/03	25	EPA1010
pH (lab) units		2.8		06/25/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.8		06/27/03	2.7777	EPA335.4
Sulfide as S	mg/Kg	< 2.8		06/27/03	2.7777	EPA376.2
Petrol. Hydrocarbons	mg/Kg	400		06/27/03	66.666	EPA418.1

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25459 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.02 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1400

MATRIX:Extract SAMPLE: RR1100
RR1100
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 10		06/27/03	10	EPA8260
Chlorobenzene	ug/L	< 10		06/27/03	10	EPA8260
Chloroform	ug/L	< 10		06/27/03	10	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 10		06/27/03	10	EPA8260
1,2 Dichloroethane	ug/L	< 10		06/27/03	10	EPA8260
1,1 Dichloroethene	ug/L	< 10		06/27/03	10	EPA8260
Methyl Ethyl Ketone	ug/L	< 100		06/27/03	100	EPA8260
Tetrachloroethene	ug/L	< 10		06/27/03	10	EPA8260
Trichloroethylene	ug/L	< 10		06/27/03	10	EPA8260
Vinyl Chloride	ug/L	< 10		06/27/03	10	EPA8260
Benzene	ug/L	< 10		06/27/03	10	EPA8260
TCLP Zero Headspace Extract				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25460 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.02 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1400

MATRIX:Extract SAMPLE: RR1100
RR1100 > Trench 11+00
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Lindane	ug/L	< 0.5		06/26/03	0.5	EPA8081
Endrin	ug/L	< 0.5		06/26/03	0.5	EPA8081
Methoxychlor	ug/L	< 1		06/26/03	1	EPA8081
Toxaphene	ug/L	< 10		06/26/03	10	EPA8081
Chlordane	ug/L	< 2		06/26/03	2	EPA8081
Heptachlor	ug/L	< 0.5		06/26/03	0.5	EPA8081
Heptachlor Epoxide	ug/L	< 0.5		06/26/03	0.5	EPA8081
2,4-D	ug/L	< 100		06/28/03	100	EPA8151
2,4,5-TP	ug/L	< 0.5		06/27/03	0.5	EPA8151
2-Methylphenol (o-cresol)	ug/L	< 10		06/27/03	10	EPA8270
3-Methylphenol (m-cresol)	ug/L	< 10		06/27/03	10	EPA8270
4-Methylphenol (p-cresol)	ug/L	< 10		06/27/03	10	EPA8270
Pentachlorophenol (ms)	ug/L	< 100		06/27/03	100	EPA8270
2,4,5-Trichlorophenol	ug/L	< 10		06/27/03	10	EPA8270
2,4,6-Trichlorophenol	ug/L	< 10		06/27/03	10	EPA8270
2,4-Dinitrotoluene	ug/L	< 10		06/27/03	10	EPA8270
Hexachlorobenzene	ug/L	< 10		06/27/03	10	EPA8270
Hexachlorobutadiene	ug/L	< 10		06/27/03	10	EPA8270
Hexachloroethane	ug/L	< 10		06/27/03	10	EPA8270
Nitrobenzene	ug/L	< 10		06/27/03	10	EPA8270
Pyridine	ug/L	41		06/27/03	10	EPA8270
TCLP Extraction				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25461 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.02 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/29/03 RECEIVED:06/25/03
TIME COL'D:1400

MATRIX:Extract SAMPLE: RR1100
RR1100
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	< 0.25		06/30/03	0.25	EPA6010
Barium as Ba	mg/L	0.14		06/27/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		06/27/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		06/27/03	0.05	EPA6010
Lead as Pb	mg/L	< 0.05		06/27/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		06/27/03	0.001	EPA7470A
Selenium as Se	mg/L	< 1		06/30/03	1	EPA6010
Silver as Ag	mg/L	< 0.05		06/27/03	0.05	EPA6010
TCLP Extraction				06/25/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25462 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233095.02 06/30/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1400
MATRIX:Soil SAMPLE: RR1100
RR1100

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Naphthalene(sv)	ug/Kg	710		06/27/03	410.95	EPA8270
2-Methylnaphthaleno	ug/Kg	< 410		06/27/03	410.95	EPA8270
Acenaphthylene	ug/Kg	1500		06/27/03	410.95	EPA8270
Acenaphthene	ug/Kg	< 410		06/27/03	410.95	EPA8270
Fluorene	ug/Kg	4100		06/27/03	410.95	EPA8270
Phenanthrene	ug/Kg	13000		06/27/03	410.95	EPA8270
Anthracene	ug/Kg	3600		06/27/03	410.95	EPA8270
Fluoranthene	ug/Kg	3600		06/27/03	410.95	EPA8270
Pyrene	ug/Kg	3200		06/27/03	410.95	EPA8270
Benzo(a)anthracene	ug/Kg	1900		06/27/03	410.95	EPA8270
Chrysene	ug/Kg	1800		06/27/03	410.95	EPA8270
Benzo(b)fluoranthene	ug/Kg	1400	#	06/27/03	410.95	EPA8270
Benzo(k)fluoranthene	ug/Kg	1400	#	06/27/03	410.95	EPA8270
Benzo(a)pyrene	ug/Kg	1600		06/27/03	410.95	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	640		06/27/03	410.95	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	< 410		06/27/03	410.95	EPA8270
Benzo(ghi)perylene	ug/Kg	600		06/27/03	410.95	EPA8270
% Solids		73		06/27/03	0.1	SM18 2540G

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 2800 ug/Kg, unable to separate isomers.

DIRECTOR

rn = 2[illegible]463 NYSDOH ID # 10320

EcoTest Laboratories Inc
377 Sheffield Ave
North Babylon. NY 11703
631 422-5777

06/30/03

LAB NO.233095.02

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008

ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point Area "C"
SOURCE OF SAMPLE: Hunts Point Area "C"
COLLECTED BY: Client DATE COL'D:06/23/03 RECEIVED:06/25/03
TIME COL'D:1400

MATRIX:Soil SAMPLE: RR1100
RR1100

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Aroclor 1016	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1221	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1232	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1242	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1248	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1254	ug/Kg	< 55		06/27/03	54.794	EPA8082
Aroclor 1260	ug/Kg	< 55		06/27/03	54.794	EPA8082
Flash Point	deg C	> 100		06/27/03	25	EPA1010
pH (lab)	units	5.5		06/25/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.7		06/27/03	2.7397	EPA335.4
Sulfide as S	mg/Kg	< 2.7		06/27/03	2.7397	EPA376.2
Petrol. Hydrocarbons	mg/Kg	160		06/27/03	65.753	EPA418.1

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 25464 NYSDOH ID # 10320

---- Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233522.00 07/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point
SOURCE OF SAMPLE: Hunts Point
COLLECTED BY: Client DATE COL'D:07/16/03 RECEIVED:07/17/03
TIME COL'D:1000
MATRIX:Extract SAMPLE: EDC71603
EDC71603
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Carbon Tetrachloride	ug/L	< 1		07/18/03	1	EPA8260
Chlorobenzene	ug/L	< 1		07/18/03	1	EPA8260
Chloroform	ug/L	< 1		07/18/03	1	EPA8260
1,4 Dichlorobenzene (v)	ug/L	< 1		07/18/03	1	EPA8260
1,2 Dichloroethane	ug/L	< 1		07/18/03	1	EPA8260
1,1 Dichloroethene	ug/L	< 1		07/18/03	1	EPA8260
Methyl Ethyl Ketone	ug/L	< 10		07/18/03	10	EPA8260
Tetrachloroethene	ug/L	< 1		07/18/03	1	EPA8260
Trichloroethylene	ug/L	< 1		07/18/03	1	EPA8260
Vinyl Chloride	ug/L	< 1		07/18/03	1	EPA8260
Benzene	ug/L	< 1		07/18/03	1	EPA8260
TCLP Zero Headspace Extract				07/17/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 29041 NYSDOH ID # 10320

ECOTEST LABORATORIES, INC. *ENVIRONMENTAL TESTING*
377 SHEFFIELD AVE. • N. BABYLON, N.Y. 11703 • (631) 422-5777• FAX (631) 422-5770
Email: ecotestlab@aol.com Website: www.ecotestlabs.com

LAB NO.233522.00 07/23/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point
SOURCE OF SAMPLE: Hunts Point
COLLECTED BY: Client DATE COL'D:07/16/03 RECEIVED:07/17/03
TIME COL'D:1000

MATRIX:Extract SAMPLE: EDC71603
EDC71603
TCLP

YTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
ane	ug/L	< 0.5		07/18/03	0.5	EPA8081
in	ug/L	< 0.5		07/18/03	0.5	EPA8081
oxychlor	ug/L	< 1		07/18/03	1	EPA8081
phene	ug/L	< 10		07/18/03	10	EPA8081
rdane	ug/L	< 2		07/18/03	2	EPA8081
achlor	ug/L	< 0.5		07/18/03	0.5	EPA8081
achlor Epoxide	ug/L	< 0.5		07/18/03	0.5	EPA8081
	ug/L	< 1		07/20/03	1	EPA8151
P	ug/L	< 0.5		07/20/03	0.5	EPA8151
hylphenol (o-cresol)	ug/L	< 10		07/18/03	10	EPA8270
hylphenol (m-cresol)	ug/L	< 10		07/18/03	10	EPA8270
hylphenol (p-cresol)	ug/L	< 10		07/18/03	10	EPA8270
achlorophenol (ms)	ug/L	< 100		07/18/03	100	EPA8270
5-Trichlorophenol	ug/L	< 10		07/18/03	10	EPA8270
-Trichlorophenol	ug/L	< 10		07/18/03	10	EPA8270
Dinitrotoluene	ug/L	< 10		07/18/03	10	EPA8270
hlorobenzene	ug/L	< 10		07/18/03	10	EPA8270
hlorobutadiene	ug/L	< 10		07/18/03	10	EPA8270
hloroethane	ug/L	< 10		07/18/03	10	EPA8270
benzene	ug/L	< 10		07/18/03	10	EPA8270
ine	ug/L	< 10		07/18/03	10	EPA8270
Extraction				07/17/03		EPA1311

cc:

LRL=Laboratory Reporting Limit

REMARKS:

DIRECTOR

9

rn = 29042 NYSDOH ID # 10320

Suffolk Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233522.00 07/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point
SOURCE OF SAMPLE: Hunts Point
COLLECTED BY: Client DATE COL'D:07/16/03 RECEIVED:07/17/03
TIME COL'D:1000

MATRIX:Extract SAMPLE: EDC71603
EDC71603
TCLP

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Arsenic as As	mg/L	0.32		07/21/03	0.05	EPA6010
Barium as Ba	mg/L	0.37		07/21/03	0.05	EPA6010
Cadmium as Cd	mg/L	< 0.05		07/21/03	0.05	EPA6010
Chromium as Cr	mg/L	< 0.05		07/21/03	0.05	EPA6010
Lead as Pb	mg/L	< 0.05		07/21/03	0.05	EPA6010
Mercury as Hg	mg/L	< 0.001		07/18/03	0.001	EPA7470A
Selenium as Se	mg/L	< 0.1		07/21/03	0.1	EPA6010
Silver as Ag	mg/L	< 0.05		07/21/03	0.05	EPA6010
TCLP Extraction				07/17/03		EPA1311

cc:

LRL=laboratory Reporting Limit

REMARKS:

DIRECTOR

rn = 29043 NYSDOH ID # 10320

est Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233522.00 07/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland PO#:

SOURCE OF SAMPLE: Hunts Point
SOURCE OF SAMPLE: Hunts Point
COLLECTED BY: Client DATE COL'D:07/16/03 RECEIVED:07/17/03
TIME COL'D:1000
MATRIX:Soil SAMPLE: EDC71603
EDC71603

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL *METHOD
Naphthalene(sv)	ug/Kg	7100		07/21/03	379.74	EPA8270
2-Methylnaphthalene	ug/Kg	1500		07/21/03	379.74	EPA8270
Acenaphthylene	ug/Kg	4800		07/21/03	379.74	EPA8270
Acenaphthene	ug/Kg	2500		07/21/03	379.74	EPA8270
Fluorene	ug/Kg	5200		07/21/03	379.74	EPA8270
Phenanthrene	ug/Kg	23000		07/21/03	379.74	EPA8270
Anthracene	ug/Kg	6700		07/21/03	379.74	EPA8270
Fluoranthene	ug/Kg	27000		07/21/03	379.74	EPA8270
Pyrene	ug/Kg	34000		07/21/03	379.74	EPA8270
Benzo(a)anthracene	ug/Kg	16000		07/21/03	379.74	EPA8270
Chrysene	ug/Kg	15000		07/21/03	379.74	EPA8270
Benzo(b)fluoranthene	ug/Kg	15000	#	07/21/03	379.74	EPA8270
Benzo(k)fluoranthene	ug/Kg	15000	#	07/21/03	379.74	EPA8270
Benzo(a)pyrene	ug/Kg	19000		07/21/03	379.74	EPA8270
Indeno(1,2,3-cd)pyrene	ug/Kg	6700		07/21/03	379.74	EPA8270
Dibenzo(a,h)anthracene	ug/Kg	3400		07/21/03	379.74	EPA8270
Benzo(ghi)perylene	ug/Kg	6800		07/21/03	379.74	EPA8270

cc:

LRL=laboratory Reporting Limit

REMARKS: #Total = 24000 ug/Kg, unable to separate isomers.

*RESULTS REPORTED ON A WET-WEIGHT BASIS.

DIRECTOR

est Laboratories Inc
377 Sheffield Ave
North Babylon, NY 11703
631 422-5777

LAB NO.233522.00

07/21/03

Code Environmental Services, Inc.
400 Middlesex Avenue
Carteret, NJ 07008
ATTN: Bill Ireland

PO#:

SOURCE OF SAMPLE: Hunts Point
SOURCE OF SAMPLE: Hunts Point
COLLECTED BY: Client

DATE COL'D:07/16/03 RECEIVED:07/17/03
TIME COL'D:1000

MATRIX:Soil SAMPLE: EDC71603
EDC71603

Results reported on a dry weight basis

ANALYTICAL PARAMETERS	UNITS	RESULT	FLAG	DATE OF ANALYSIS	LRL	ANALYTICAL METHOD
Benzene	ug/Kg	< 6.3		07/21/03	6.3291	EPA8021
Toluene	ug/Kg	< 6.3		07/21/03	6.3291	EPA8021
Ethyl Benzene	ug/Kg	< 6.3		07/21/03	6.3291	EPA8021
m + p Xylene	ug/Kg	< 13		07/21/03	12.658	EPA8021
o Xylene	ug/Kg	< 6.3		07/21/03	6.3291	EPA8021
% Solids		79		07/18/03	0.1	SM18\2540G
Petrol. Hydrocarbons	mg/Kg	330		07/21/03	30.379	EPA418.1
Flash Point deg C		> 100		07/18/03	25	EPA1010
pH (lab) units		7.4		07/17/03	0.1	EPA9045C
Reactive cyanide	mg/Kg	< 2.5		07/17/03	2.5316	EPA335.4
Sulfide as S	mg/Kg	< 2.5		07/21/03	2.5316	EPA376.2
Tot.Organic Halogens	mg/Kg	< 13	*	07/21/03	12.658	EPA9020
Aroclor 1016	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1221	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1232	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1242	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1248	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1254	ug/Kg	< 510		07/21/03	506.32	EPA8082
Aroclor 1260	ug/Kg	< 510		07/21/03	506.32	EPA8082

cc:

LRL=laboratory Reporting Limit

REMARKS: * By ELAP Lab 11693.

DIRECTOR

rn = 29045 NYSDOH ID # 10320

Attachment C

Soil and Groundwater Investigation Results Report

New York City Economic Development Corporation
South Bronx Greenway
Food Center Drive
Bronx, New York

March 2012

Prepared for:
Mathews Nielsen
120 Broadway
Suite 1040
New York, NY 10271

MATHEWS
NIELSEN

Prepared by:
Dewberry-Goodkind, Inc.
600 Parsippany Rd
Suite 301
Parsippany, NJ 07054

Dewberry

Soil and Groundwater Investigation Results Report
New York City Economic Development Corporation
South Bronx Greenway
Food Center Drive – Bronx, New York

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APPENDICES

Appendix A: Soil Boring Logs
Appendix B: Laboratory Data Deliverables (Electronic)

EXECUTIVE SUMMARY

As requested by Mathews Nielsen and on behalf of the New York City Economic Development Corporation, Dewberry-Goodkind, Inc. performed soil and groundwater investigation activities along Food Center Drive, located in the Hunts Point section of the Bronx, New York. This investigation was completed in support of proposed construction activities for the area of Food Center Drive including upgrading of selected utilities, creation of more cross-over's in the existing median, development of a paved bike and pedestrian path, installation of replacement storm water catch basins and associated piping, and reconstruction of curb and landscaping elements along parts of the roadway. Upon completion of this work the traffic flow on Food Center Drive will be in one direction.

The roadway, sidewalks, and other hard-scaped areas along Food Center Drive comprise an engineering control (cap) overlying fill material known to be contaminated from historical operations of a Consolidated Edison coal gasification plant that operated in the area from approximately the mid 1920's to the mid 1960's. In addition, this area was extensively filled to raise the general grade sufficiently above mean sea level to allow development.

Soil samples collected during the investigation, and submitted for laboratory analyses revealed the presence of elevated levels of polycyclic aromatic hydrocarbons in numerous samples and the presence of in mercury in one sample and PCBs in another sample. In addition, elevated concentrations of cyanide, potentially associated with purifier waste, were identified at four soil boring locations. Based on historical sampling in the general area that has revealed similar results, and the historical operations of a coal gasification plant in this part of Hunts Point, the identification of these contaminants beneath the Food Center Drive right-of-way is not an unexpected result. Two groundwater samples collected during the investigation did not reveal the presence of benzene, toluene, ethylbenzene or xylenes.

Based on this investigation, the historical operations conducted in the area, as well as previous sampling events conducted by others, the proposed construction activities along Food Center Drive should include the implementation of a Health and Safety Plan during construction to ensure the safety of workers on the site. This plan should also include a Community Air Monitoring Plan which would provide a means to monitor the generation of dust during construction and outline procedures to minimize dust, as well as actions to take in the event that excessive dust is generated during construction activities.

Furthermore, a Materials Handling Plan should be developed to outline procedures for handling and disposal of excess soils generated during the construction activities. This plan, in concert with the Health and Safety Plan, will also outline the appropriate steps to take should construction activities encounter unknown contaminants. Both of these documents should be consistent with any precautions or procedures outlined in the existing Sire Management Plan associated with the site.

1.0 INTRODUCTION

As requested by Mathews Nielsen and on behalf of the New York City Economic Development Corporation, Dewberry-Goodkind, Inc. (Dewberry) conducted soil and groundwater sampling activities along Food Center Drive, located in the Borough and the County of the Bronx, New York (Figure 1). Food Center Drive is located in the Hunts Point area of the Bronx and provides access to the numerous markets (produce, fish, Hunts Point Co-Operative, etc.) and food service distribution centers that service New York City and the surrounding area.

This investigation was performed in support of proposed construction activities within the Food Center Drive right-of-way. It is anticipated, based on previous site investigations and characterizations completed by others, that the proposed construction, including replacement of a water main, creation of additional cross-over's in the existing median, development of a paved bike and pedestrian path, reconstruction of curbing and replacement of catch basins and other storm water features, as well as landscaping improvements, will encounter contaminated soil located beneath the roadway. Sampling was conducted at specific locations to observe subsurface conditions where various construction activities are planned or, depending on the presence of subsurface utilities, as close as practical in order to avoid damaging any utilities.

In addition to the soil borings, four test pits were proposed along the Produce Market side of the sidewalk along Food Center Drive in order to gain information on the previous construction methods/materials used on the existing corrugated metal fence posts that are located parallel to the roadway.

This area of Hunts Point was historically associated with the Consolidated Edison (Con Ed) coal gasification facility (coking station) which was constructed between 1924 and 1932, and operated until the early 1960s. These historical operations impacted soils in the area with byproducts from this process including coal tar, purifier waste, and a combination of both. In addition, most of the Hunts Point peninsula on which this facility was located was formerly at or near sea level. Importation of fill material and dredge spoils of unknown quality was historically conducted to raise the grade in preparation for development.

The cap consists of the roadway, sidewalks, building slabs/foundations as well as other paved and landscaped elements associated with the commercial properties along Food Center Drive. The cap prohibits direct access to the underlying contamination. In addition, a Deed Restriction was previously recorded by others.

In keeping with the historical identification of contaminants beneath the cap, the current soil investigation included the collection of soil for laboratory analysis of Diesel Range Organics (DRO) and Volatile Organic Compounds (VOCs), specifically benzene, toluene, ethylbenzene, and xylenes, commonly referred to by their initials as BTEX compounds. In addition, semi-volatile organic compounds (SVOCs), primarily polycyclic aromatic hydrocarbons (PAHs), cyanide and the metals lead and mercury were included in the laboratory analyses of the soil

samples. Groundwater samples collected during the investigation were analyzed for BTEX compounds.

2.0 PROJECT DESCRIPTION

Food Center Drive, located in the Hunts Point area of the Bronx, provides access to various markets and food/beverage distribution facilities that serve New York City and the surrounding area. This area of Hunts Point was formerly operated as a coal gasification plan by Con Ed. These operations, conducted between the mid 1920's and the early 1960's, released contaminants into the environment, impacting the soils beneath and surrounding the facility operations. The soil boring investigation described herein was completed to assist in identifying the soil characteristics that may be encountered during proposed construction activities along Food Center Drive and to obtain additional analytical data to document the levels of contaminants that may potentially be encountered during disturbance of the soils beneath the existing cap.

2.1 Site Topography, Geology and Hydrogeology

Hunts Point is located within the Manhattan Prong Sub-province of the New England Uplands Physiographic Province. Based on historical investigations, the bedrock in this area is primarily metamorphic bedrock overlain by glacial till. Most of the Bronx is underlain by the Manhattan Schist, Fordham Gneiss and Inwood Marble, mantled with well-compacted glacial till. Overlying these units is undifferentiated, natural (unconsolidated) media primarily developed by fluvial activity. Historically, the topography of much of the area was raised through the importation of fill material. The area of Food Center Drive is relatively flat, with the elevation ranging between 5 and 15 feet above msl.

Two borings were extended deep enough to encounter groundwater. In both cases, groundwater was identified approximately 11 feet below grade. Although groundwater elevation measurements were not collected as part of this investigation, according to previous investigations, groundwater is expected to flow in the direction of the Bronx and East Rivers and varies with tidal fluctuation.

3.0 TECHNICAL APPROACH

3.1 Soil Borings / Well Point Installation

Beginning on January 9, 2012 and continuing for eight business days, Zebra Drilling (Zebra) of Lynbrook New York, completed 61 soil borings designated SB-1 thru SB-61 within the Food Center Drive right-of-way. Zebra was contracted directly by Mathews Nielsen to complete the drilling activities. Dewberry provided oversight and sampling services during the drilling. In accordance with the Site Management Plan (SMP), approved by the New York State Department of Environmental Conservation (NYSDEC), Henningson, Durham and Richardson Architecture & Engineering LLC (HDR) was contracted to perform community air monitoring during the soil boring activities. Test America, a New York Department of Health certified laboratory (NELAP) # 11452, was contracted directly by Mathews Nielsen to conduct analytical services on the samples collected as part of this soil boring investigation.

The borings were completed with a Geoprobe™ 6610 drilling rig using direct push technology to advance the borings. The majority of the borings were advanced to a total depth of 10 feet below ground surface, although several of the borings were advanced to a depth of 15 feet or 20 feet below grade to facilitate the collection of groundwater samples, as well as identify the vertical limits of visually identified coal tar and/or purifier waste.

Zebra Drilling submitted an application for and received a Street Opening Permit to conduct the soil boring activities within the limits of Food Center Drive. The Street Opening Permit, issued by the New York City Department of Transportation, was received on January 3, 2012. After receipt of the Street Opening Permit, Zebra contacted the NY one-call utility mark out number to arrange for a mark out of the subsurface utilities within the right-of-way. Furthermore, during the course of the investigation, personnel from the utility mark out company as well as from Iroquois Gas, were on-site to confirm the clearance of the final locations of the soil borings away from known utilities. Prior to initiating the investigation, numerous soil borings were moved from the originally planned locations due to their proximity to subsurface utilities.

Typical soil boring installation activities included the following steps. Using a drill bit designed to penetrate concrete, Zebra drilled a hole, slightly larger than two inches in diameter, thru the surficial asphalt and or concrete. The thickness of the roadway materials was typically between eight and twelve inches. Once the road was fully penetrated, the drill bit was removed and a Macrocore™ sampling tool was positioned in the hole. The five foot long Macrocore™ consists of a threaded, stainless steel tube designed to hold a plastic sample liner. The Macrocore™ has a cutting shoe on one end and the drive head adapter on the other end. After equipping the sampler with a plastic liner, the Macrocore™ sampler is pushed/vibrated into the ground by the Geoprobe drill rig.

The combined vibration and downward force of the drill rig advances the sampler through the soil column, thereby retrieving a continuous soil core within the plastic sample liner. The liner keeps contact between the Macrocore™ sampler and the retrieved soil core to a minimum, having contact only with the inner part of the "cutting shoe", lessening the possibility for cross contamination. Once driven to the appropriate depth, the Macrocore™ is retrieved from the ground and the liner with the soil core is removed from the Macrocore™ for examination.

Collection of the five to ten foot interval soil core is completed in the same manner, except that a five foot long drill rod is attached to the drive end of the Macrocore™ so that it may be driven from five feet below grade to ten feet below grade. After being driven to the ten foot depth, it is retrieved from the ground with the assistance of the drill rig. During sampling, the boreholes remained open (common occurrence above the watertable) so that no adjustments to the sampling procedure was necessary to avoid collection of soil caving from above the appropriate sample interval.

Figure 2 illustrates the sampling locations along Food Center Drive. During the investigation it was determined that many of the original sampling locations were too close to marked-out subsurface utilities, necessitating an adjustment in the final sampling location. In most cases the locations were shifted to the sidewalk adjacent to the roadway to avoid the utilities.

3.2 Soil Sampling and Analyses

A core of soil was collected during the advancement of the soil boring to be used for lithologic information, field screening and to facilitate sample collection using a two-inch diameter, five-foot long Macrocore Sampler™. Although driven five feet, soil recovery from each boring ranged from 50 percent to 75 percent, typical for fill material. A Dewberry geologist was present to observe Macrocore™ boring advancement, field screen the recovered soils, and collect soil samples.

Upon retrieval of each Macrocore, the liner was extracted from the sampler, cut open, and the soil column examined. The soil core also was field screened visually for evidence of contamination and with a photo ionization detector (PID) to evaluate the soils for the presence of volatile contaminants. After documenting the lithologic characteristics of the retrieved soils and any screening observations, a sample was collected from a six-inch depth interval within the proposed depth of disturbance. Soil samples were collected from a total of 18 of the 61 soil borings at depths corresponding to the most likely depths of contamination (based on screening results) within the range of construction disturbance. A description of the characteristics of the soils encountered in each soil boring is provided on the soil boring logs, included as Appendix A.

Soil samples were collected for analysis of Diesel Range Organics (C10-C44), the volatile compounds benzene, toluene, ethylbenzene and xylenes, semi-volatile organic compounds, polycyclic aromatic hydrocarbons, lead, mercury and cyanide. The targeted compounds were analyzed using the following procedures:

- Diesel Range Organics – analyzed in accordance with EPA SW-846 Method 8015B-DRO.
- Volatile Organic Compounds – analyzed in accordance with EPA SW-846 Method 8260B.
- Semi-Volatile Organic Compounds – analyzed in accordance with EPA SW-846 Method 8270C.
- Total Metals – Analyzed in accordance with EPA SW-846 Method 6010B.
- Total Mercury – Analyzed in accordance with EPA SW-846 Method 7471A.
- Polycyclic Aromatic Hydrocarbons – Analyzed in accordance with EPA SW-846 Method 8082A.
- Total Cyanide – Analyzed in accordance with EPA SW-847 Method 9012A.

After completion of all sample collection activities, the samples were transported to Test America - Edison in Edison, New Jersey, a New York Department of Health certified laboratory, for analyses.

3.3 Groundwater Sampling and Analyses

Groundwater samples were collected from soil boring locations SB-18 and SB-23. These soil borings, located on either side of Hunts Point Landing, were converted into temporary well points after soil sampling was completed at these locations. Each boring was extended to a depth believed to be below the watertable. Upon removal of the Macrocore™ sampler, a one-inch diameter PVC temporary well point was installed. Each well point consisted of a ten foot long well screen attached to a solid riser extending above the ground surface. After installation, each well point was allowed to remain in the ground to provide the opportunity for groundwater to enter the well screen. Boring SB-18 was extended to a depth of 20 feet below grade, while the temporary well point in SB-23 was installed to a depth of 15 feet below grade. The boring at SB-23 encountered a clay layer just below 12 feet below grade. In order to prevent the potential for impacted groundwater to migrate into separate deeper water-bearing unit, driving this well point was halted at 15 feet below grade.

Once the groundwater had stabilized within the well points, a groundwater sample was collected from each one using a Teflon bailer. While preventing its contact with any potentially contaminated aboveground surface, the Teflon bailer was attached to a leader and slowly lowered into the well to retrieve a grab sample. Upon retrieval of the bailer, the groundwater in the bailer was slowly poured into laboratory supplied glassware, labeled and placed into an

ice-filled cooler for delivery to the laboratory. These samples, like the soil samples, were submitted to the New York Certified laboratory under standard chain-of-custody protocol.

As requested by Mathews Nielsen, both of the groundwater samples, a duplicate sample, and the appropriate field and trip blanks were analyzed for either BTEX or TCL Volatile Organic Compounds. Groundwater collected as part of this investigation was analyzed using EPA Method SW-846 8260B.

The analytical results from the collection of soil and groundwater samples during this investigation are summarized in Section 4.0, below.

3.4 Text Pit Excavation

Three of the four planned test pits were completed along the interior of the fence running between the Produce Market property and Food Center Drive. The one test pit that was not completed had been planned in an area where a low concrete wall had been constructed next to the metal corrugated fence, thereby preventing access to the proposed location. Where accessible, test pits were excavated by Zebra Drilling immediately adjacent to the corrugated metal fence support posts. The purpose of these test pits was to evaluate the foundation construction of these support posts. Due to limitations imposed by the overlying sidewalk and curbing (on the Produce Market side of the fence), the test pits did not extend beneath the sidewalk to a position immediately adjacent to the reported footing of the posts, therefore visual inspection of the construction methods/materials used was not possible.

Rather, the site conditions allowed the test pit excavations to be extended less than one foot beneath and beyond the curbing. Further deepening of the test pits did not afford a better view of the area beneath the fence posts. However, based on an examination of the sidewalk and the fence posts themselves, the following was deduced:

- The fence posts have a base of concrete that appears to have been poured separately from the surrounding sidewalk.
- The base of concrete surrounding the metal posts is approximately six inches in diameter; total depth of the concrete is unknown.
- The depth to which the metal fence posts extend below grade is unknown.
- The soils encountered beneath and adjacent to the sidewalk at the limit of excavation are typical fill materials as previously observed in the area, sometimes consisting of fill material containing well-sorted sands and or silts.

4.0 INVESTIGATION RESULTS

Observations made during the soil boring investigation confirmed that the soils encountered beneath the roadway and adjoining sidewalk are comprised of historic fill materials including areas of industrial and manufactured gas plant waste. The characteristics of the fill material varied somewhat from boring to boring as is typical of fill, due to its heterogeneous nature. Although sand and silt were abundant in many of the borings, it commonly was associated with fragments of brick, concrete, ceramics, or ash/cinders in varying amounts. In some locations, material believed to be dredge spoils was identified. The presence of coal tar and purifier waste was also documented visually.

4.1 Soil Sampling Results

A total of 18 soil samples were collected from the 61 soil borings completed along the Food Center Drive right-of-way during this investigation. The original plan for 16 samples was expanded slightly when two soil boring locations previously not sampled (SB-34 & SB-45) were re-drilled in order to collect samples containing evidence of purifier waste and coal tar. A total of 12 of the 18 samples that were analyzed contained concentrations of targeted compounds above the New York Soil Criteria for Commercial properties, the applicable criteria used for this area. Six soil samples collected as part of this investigation did not contained targeted compounds above these criteria.

Exceedances, where present, typically included a category of compounds known as polycyclic aromatic hydrocarbons (PAHs). These compounds include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene. Because of the long history of industrial activities in the northeast United States, it is not uncommon to find low concentrations of these compounds at or near the ground surface in many areas. These compounds are commonly found in the environment because they are generated, in part, by the incomplete combustion of organic material. Burning any organic fuel, ranging from wood, peat or coal to petroleum distillation products produce these compounds. They are also found in cigarette smoke, and can be found on grills used for cooking within the black residue typically left on the grill after cooking. Paved roadways typically contain high levels of these compounds, as they are a component of the tar used in the production of asphalt. These compounds are ubiquitous in a modern industrialized society. Based on the ways that these compounds are formed, it is virtually assured to find them in abundance in the vicinity of a former coal gasification plant.

In addition to the PAHs, one soil sample (SB-34) contained mercury and one contained of PCBs (SB-46) at concentrations above the New York Soil Criteria for Commercial properties.

Elevated concentrations of cyanide, above the applicable criteria of 27 mg/kg, were identified in samples collected from SB-1, SB-5, SB-33 and SB-34, which may indicated the proximity of these locations to purifier waste.

As noted on Table 1, the analytical results from soil samples collected for VOC analysis from borings SB-1, SB-5 and SB-10 are qualified as being analyzed beyond their holding times. These results, although qualified, are consistent with other analytical results from this investigation for volatile organic compounds. Because the qualified results are well below the applicable criteria, and are consistent with analytical results for VOCs from the other soil samples, it is concluded that these qualified results have no significant negative impact on the overall validity of the analytical results from these investigation activities.

Tables 1 and 2 summarize the analytical results from the soil samples collected as part of this investigation. Appendix B contains the laboratory analytical data package for samples analyzed during this sampling event.

4.2 Groundwater Sampling Results

Groundwater samples collected from soil boring locations SB-18 and SB-23 were analyzed for BTEX compounds. The results from these samples, as summarized in Table 3, illustrate that at these locations, there are no exceedances for these analytical parameters.

5.0 CONCLUSIONS

Soil sampling was successfully completed along Food Center Drive during early January 2012. A total of 61 soil borings were completed during the investigation, from which 18 soil samples were collected for laboratory analyses. This soil sampling was completed to evaluate the soils anticipated to be encountered during proposed construction activities along the roadway. Soil boring logs developed from observations made during the sampling provide a summary of the soil encountered at each location. Although the original soil boring locations were based on proposed construction activities, many of the original locations were moved to the adjacent sidewalk to remain a safe distance from subsurface utilities. That said, it is not anticipated that the conditions observed at these revised locations would vary significantly from those at the original proposed locations.

Fill material encountered beneath the roadway and adjoining sidewalk was consistent with descriptions of fill material from previous investigations in this part of Hunts Point. Typical of fill material, the specific characteristics such as grain-size, color, presence or absence of specific material (concrete, brick, ash, slag and ceramics) varied from location to location. Fill materials were encountered throughout the investigation area with limited areas exhibiting impacts from the former manufactured gas plant wastes.

Laboratory analytical results from the 18 samples collected during the investigation identified a limited number of contaminants including primarily PAHs, with single exceedances of mercury and PCBs, all of which were not unexpected due to the type of fill material and historic operations in the area. Elevated concentrations of cyanide were identified in samples collected from SB-1, SB-5, SB-33 and SB-34, which may indicated the proximity of these locations to purifier waste.

Soil borings SB-18 and SB-23 were advanced to a depth to facilitate the collection of groundwater samples. These samples, both analyzed for BTEX compounds, did not contain elevated levels of these targeted compounds, although due to the close proximity of these two groundwater sampling locations to each other, they may not be representative of the entire proposed construction area.

In general, observations of soils retrieved during the investigation and the analytical results from selected locations, confirmed existence of extensive fill material beneath the site and the presence of a suite of compounds present at concentrations historically identified by others to exist beneath the engineering control (Cap).

6.0 RECOMMENDATIONS

Based on the evaluation of the analytical results from the soil boring investigation along Food Center Drive, Dewberry does not recommend any additional sampling prior to the start of construction along the construction corridor. However, during the proposed construction activities, standard precautions should be taken with regard to exposure to, handling, and the ultimate disposition of the soils excavated from beneath the cap. In accordance with the SMP, previously approved by NYSDEC, a site specific Health and Safety Plan for all construction activities that will encounter the soils beneath the cap should be prepared by the contractor and followed during all field activities. Although no exceedances were identified in the two groundwater samples collected during the investigation, these two samples were in close proximity to each other and may not be representative of the entire area.

6.1 Health and Safety Plan

A site specific Health and Safety Plan (HASP) should be developed in accordance with the SMP and NYSDEC approved template, for the various construction activities associated with the project to reduce the potential for worker or public contact with contamination found in either the soil or groundwater. The HASP should be submitted to the NYSDEC and the New York State Department of Health (NYSDOH) prior to commencing intrusive activities beneath the existing cap. These plans would address the potential exposure pathways and other safety concerns associated with a variety of construction methods. Each HASP would address both the known contamination issues (e.g., the presence of high PAHs along the roadway), as well as contingency items (e.g., if unknown contamination is encountered). The HASP would be developed in accordance with U.S. Occupational Health and Safety Administration (OSHA) regulations and guidelines.

The HASP will be the primary measure used to safeguard construction workers during construction work. This document would describe in detail all air, soil and water monitoring that would take place during construction work, planned responses to monitoring data, personal protective equipment (PPE) and respiratory protection to be used by workers in various parts of the excavation, dust and vapor control measures, proper decontamination routines, and emergency procedures. These procedures would include requirements to notify appropriate regulatory agencies, as well as procedures to quickly and safely address the various issues. The HASP would also generally include routine monitoring of both air and soil.

The provisions of the HASP would be mandatory for the contractors and subcontractors engaged in any construction activities that have the potential to expose their personnel to the existing soils or groundwater at the site. In addition, all on-site personnel would be required to follow all applicable local, state, and OSHA construction codes and regulations. Engineering controls, such as dust suppression, would be implemented or work activities would be

temporarily ceased as needed to mitigate the potential for off-site migration of airborne constituents. The off-site community will also be protected through other measures designed

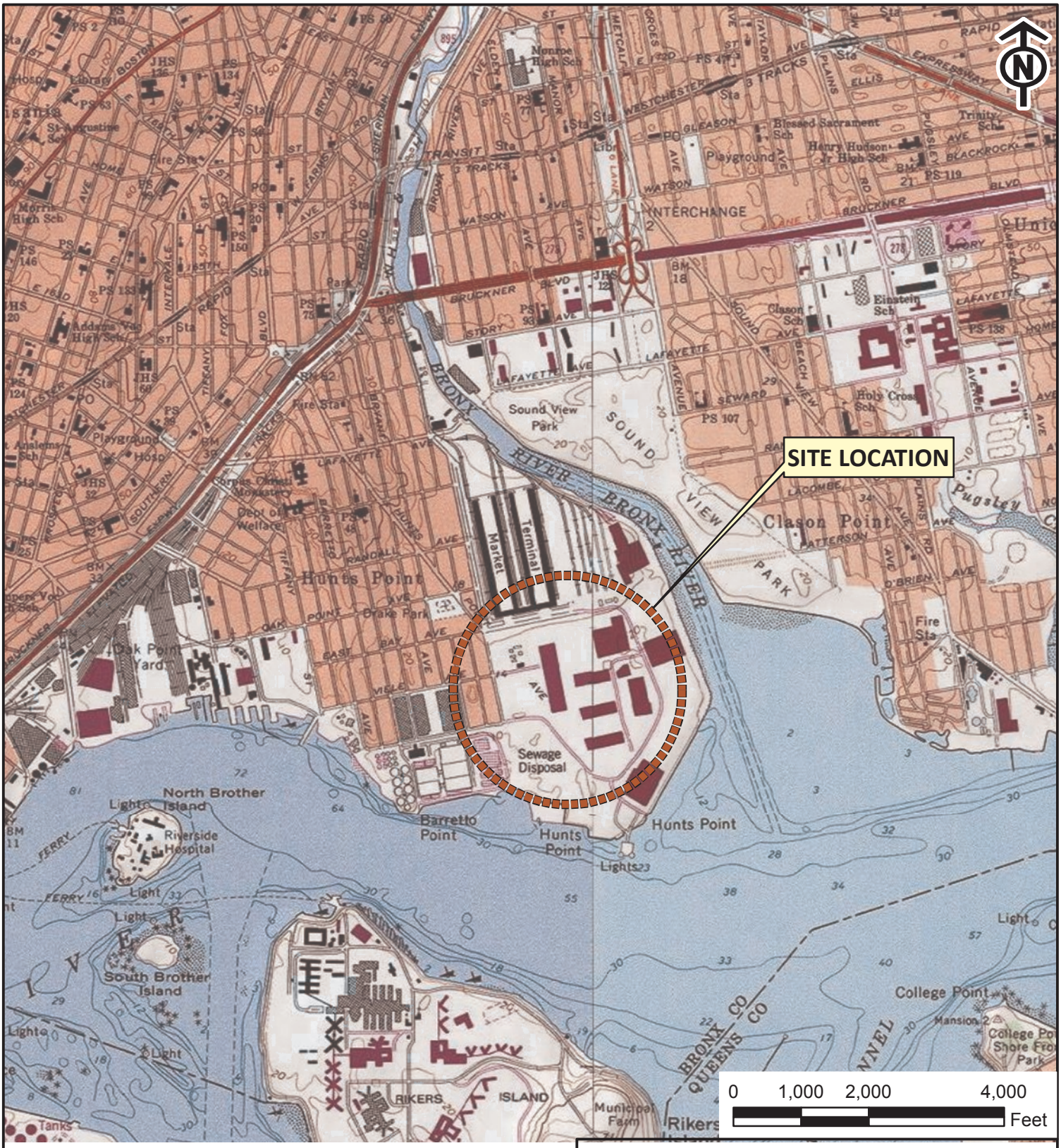
to limit direct contact with on-site materials. Such measures would include appropriate access controls (e.g., fencing) and proper management of all waste streams generated during on-site activities through the implementation of soil and groundwater management plans.

A community air monitoring plan (CAMP) should also be developed to ensure the protection of the surrounding community during construction activities. The CAMP will provide the means to monitor air quality during disturbance of contaminated soils beneath the cap so that immediate actions can be taken during construction to mitigate dust migration beyond the work area.

6.2 Material Handling Plan

A material handling plan should be developed for the proposed construction activities along Food Center Drive to establish proper procedures and protocol with regard to the handling of contaminated soils. This plan should outline the proper staging and handling of material, and appropriate disposal of excess material. This plan should be consistent with procedures already outlined in the SMP. Only suitable materials excavated from beneath the cap may be reused on-site. In the event that excavated material containing coal tar and/or purifier waste is encountered, these materials must be completely removed from the ground within the horizontal confines of the activity that encounters the waste, staged on-site and ultimately disposed off-site at a facility licensed to accept this type of material. All soils slated for off-site disposal shall be sampled in accordance with the disposal facility requirements to ensure that the materials meet the sampling guidelines and permit requirements of the disposal facility.

FIGURES



Source: US Topographic Maps, ESRI

Path: Q:\97390500\GIS\Mxd\Site-Location_Map.mxd

NEW YORK CITY ECONOMIC DEVELOPMENT CORPORATION

SITE LOCATION MAP

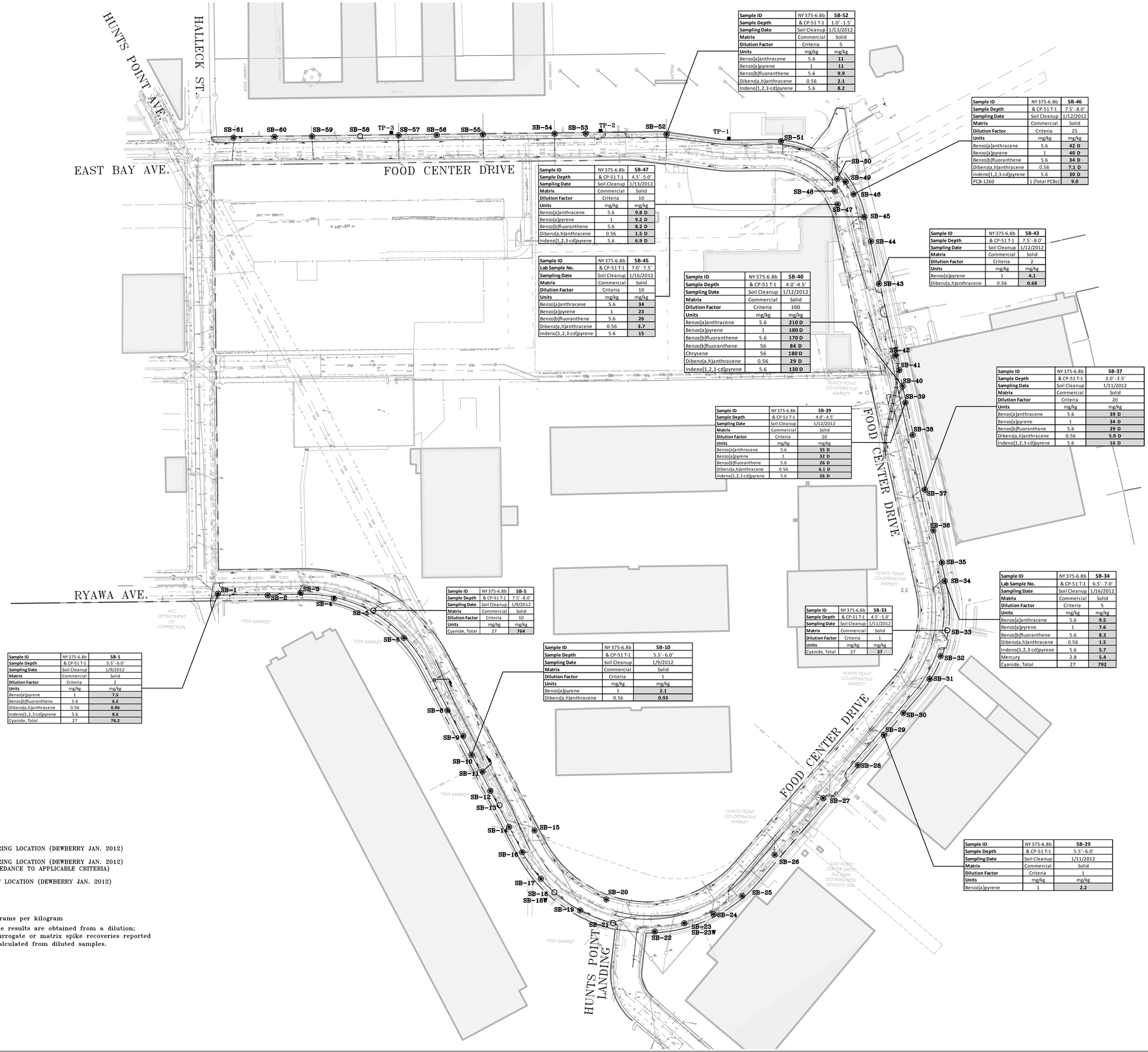
South Bronx Greenway
Food Center Drive, Hunts Point NY

SCALE: 1" = 2000'

DATE: March 2012

Dewberry

FIGURE 1



Sample ID	NY 375-6.8b	SB-52
Sample Depth	& CP-51 T-1	1.0' - 1.5'
Sampling Date	Soil Cleanup	1/13/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	5
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**11**
Benzo[a]pyrene	1	**11**
Benzo[b]fluoranthene	5.6	**9.9**
Dibenz[a,h]anthracene	0.56	**2.1**
Indeno[1,2,3-cd]pyrene	5.6	**8.2**

Sample ID	NY 375-6.8b	SB-46
Sample Depth	& CP-51 T-1	7.5' - 8.0'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	25
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**42 D**
Benzo[a]pyrene	1	**40 D**
Benzo[b]fluoranthene	5.6	**34 D**
Dibenz[a,h]anthracene	0.56	**7.1 D**
Indeno[1,2,3-cd]pyrene	5.6	**30 D**
PCB-1260	1 (Total PCBs)	**9.0**

Sample ID	NY 375-6.8b	SB-47
Sample Depth	& CP-51 T-1	4.5' - 5.0'
Sampling Date	Soil Cleanup	1/13/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**9.8 D**
Benzo[a]pyrene	1	**9.2 D**
Benzo[b]fluoranthene	5.6	**8.2 D**
Dibenz[a,h]anthracene	0.56	**1.5 D**
Indeno[1,2,3-cd]pyrene	5.6	**6.9 D**

Sample ID	NY 375-6.8b	SB-43
Sample Depth	& CP-51 T-1	7.5' - 8.0'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	2
Units	mg/kg	mg/kg
Benzo[a]pyrene	1	**4.1**
Dibenz[a,h]anthracene	0.56	**0.68**

Sample ID	NY 375-6.8b	SB-45
Lab Sample No.	& CP-51 T-1	7.0' - 7.5'
Sampling Date	Soil Cleanup	1/16/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**34**
Benzo[a]pyrene	1	**23**
Benzo[b]fluoranthene	5.6	**26**
Dibenz[a,h]anthracene	0.56	**3.7**
Indeno[1,2,3-cd]pyrene	5.6	**15**

Sample ID	NY 375-6.8b	SB-40
Sample Depth	& CP-51 T-1	4.0' -4.5'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	100
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**210 D**
Benzo[a]pyrene	1	**180 D**
Benzo[b]fluoranthene	5.6	**170 D**
Benzo[k]fluoranthene	56	**84 D**
Chrysene	56	**180 D**
Dibenz[a,h]anthracene	0.56	**29 D**
Indeno[1,2,3-cd]pyrene	5.6	**130 D**

Sample ID	NY 375-6.8b	SB-37
Sample Depth	& CP-51 T-1	2.0' - 2.5'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	20
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**39 D**
Benzo[a]pyrene	1	**34 D**
Benzo[b]fluoranthene	5.6	**29 D**
Dibenz[a,h]anthracene	0.56	**5.9 D**
Indeno[1,2,3-cd]pyrene	5.6	**16 D**

Sample ID	NY 375-6.8b	SB-39
Sample Depth	& CP-51 T-1	4.0' -4.5'
Sampling Date	Soil Cleanup	1/12/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	20
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**35 D**
Benzo[a]pyrene	1	**32 D**
Benzo[b]fluoranthene	5.6	**26 D**
Dibenz[a,h]anthracene	0.56	**6.1 D**
Indeno[1,2,3-cd]pyrene	5.6	**26 D**

Sample ID	NY 375-6.8b	SB-34
Lab Sample No.	& CP-51 T-1	6.5' - 7.0'
Sampling Date	Soil Cleanup	1/16/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	5
Units	mg/kg	mg/kg
Benzo[a]anthracene	5.6	**9.5**
Benzo[a]pyrene	1	**7.6**
Benzo[b]fluoranthene	5.6	**8.3**
Dibenz[a,h]anthracene	0.56	**1.5**
Indeno[1,2,3-cd]pyrene	5.6	**5.7**
Mercury	2.8	**5.4**
Cyanide, Total	27	**792**

Sample ID	NY 375-6.8b	SB-33
Sample Depth	& CP-51 T-1	4.5' - 5.0'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Cyanide, Total	27	**37**

Sample ID	NY 375-6.8b	SB-5
Sample Depth	& CP-51 T-1	7.5' -8.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	10
Units	mg/kg	mg/kg
Cyanide, Total	27	**764**

Sample ID	NY 375-6.8b	SB-10
Sample Depth	& CP-51 T-1	5.5' - 6.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Benzo[a]pyrene	1	**2.1**
Dibenz[a,h]anthracene	0.56	**0.93**

Sample ID	NY 375-6.8b	SB-1
Sample Depth	& CP-51 T-1	5.5' - 6.0'
Sampling Date	Soil Cleanup	1/9/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	2
Units	mg/kg	mg/kg
Benzo[a]pyrene	1	**7.5**
Benzo[b]fluoranthene	5.6	**6.5**
Dibenz[a,h]anthracene	0.56	**0.96**
Indeno[1,2,3-cd]pyrene	5.6	**8.6**
Cyanide, Total	27	**78.2**

Sample ID	NY 375-6.8b	SB-29
Sample Depth	& CP-51 T-1	5.5' - 6.0'
Sampling Date	Soil Cleanup	1/11/2012
Matrix	Commercial	Solid
Dilution Factor	Criteria	1
Units	mg/kg	mg/kg
Benzo[a]pyrene	1	**2.2**

LEGEND:

SB-4 ◉ SOIL BORING LOCATION (DEWBERRY JAN. 2012)

SB-18 ○ SOIL BORING LOCATION (DEWBERRY JAN. 2012) NO EXCEEDANCE TO APPLICABLE CRITERIA)

TP-1 ■ TEST PIT LOCATION (DEWBERRY JAN. 2012)

NOTES:

mg/kg – milligrams per kilogram

D – Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

N

GRAPHIC SCALE (IN FEET)

125 0 62.5 125 250

Project:

SOUTH BRONX GREENWAY

FOOD CENTER DRIVE

Client:

New York City Economic Development Corporation

Landscape Architect and Prime Consultant:

Mathews Nielsen Landscape Architects, PC

120 Broadway, Suite 1040
New York, NY 10271
Tel (212) 431 3609
Fax (212) 941 1513
www.mnlandscape.com

Civil / Structural Engineering

Dewberry
15 East 26th Street,
New York, New York 10010
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Fax: 212 685 2340

Environmental Science and Engineering Consultants

HDR
One Blue Hill Plaza
Pearl River, NY 10965
Tel: (845)735 8300
Fax: (845)735 7466

Survey

Mercator Land Surveying, LLC
175 West 93rd Street, 12th Floor
New York, NY 10025
Tel: 646 837 0780
Fax: 212 504 2602

Location Plan:

Seal:

Submissions:

Date: Type:

Project Phase:

Drawing Title:

SOIL BORING LOCATION PLAN / ANALYTICAL EXCEEDANCES

Scale: 1" = 125'-0"

Date: MARCH 2012

Drawn By: CEM

Sheet No. 1 OF 1

Checked By: WP

MNLA Project No:

Drawing No. FIGURE 2

G:\37390500\CAD\Civil\FIG_BORING_LOCATION_PLAN_Prnt.dwg

TABLES

Table 1
Soil Sampling Analytical Results
Volatile Organic Compounds
Soil Boring Investigation
Food Center Drive, Bronx, New York

Sample ID	NY 375-6.8b	SB-1 5.5'-6'		SB-5 7.5'-8'		SB-10 5.5'-6'		SB-13 5.5'-6'		SB-18 5.5'-6'		SB-21 4'-4.5'		SB-29 5.5'-6'		DUP11112		SB-33 4.5'-5'		SB-37 2'-2.5'	
Lab Sample No.	& CP-51 T-1	460-35644-001		460-35644-002		460-35644-003		460-35644-004		460-35644-005		460-35644-006		460-35644-007		460-35644-008		460-35644-009		460-35644-010	
Sampling Date	Soil Cleanup Commercial	1/9/2012		1/9/2012		1/9/2012		1/10/2012		1/10/2012		1/10/2012		1/11/2012		1/11/2012		1/11/2012		1/11/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		50		1		1		1		1		1		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)																					
1,1,1-Trichloroethane	500	NR		NR		NR		NR		NR		NR		NR		0.00019	U	NR		NR	
1,1,2,2-Tetrachloroethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00077	U	NR		NR	
1,1,2-Trichloroethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00060	U	NR		NR	
1,1-Dichloroethane	240	NR		NR		NR		NR		NR		NR		NR		0.00026	U	NR		NR	
1,1-Dichloroethene	500	NR		NR		NR		NR		NR		NR		NR		0.00037	U	NR		NR	
1,2-Dichloroethane	30	NR		NR		NR		NR		NR		NR		NR		0.00040	U	NR		NR	
1,2-Dichloropropane	NA	NR		NR		NR		NR		NR		NR		NR		0.00032	U	NR		NR	
2-Butanone	NA	NR		NR		NR		NR		NR		NR		NR		0.00058	U	NR		NR	
2-Hexanone	NA	NR		NR		NR		NR		NR		NR		NR		0.0017	U	NR		NR	
4-Methyl-2-pentanone	NA	NR		NR		NR		NR		NR		NR		NR		0.00072	U	NR		NR	
Acetone	500	NR		NR		NR		NR		NR		NR		NR		0.017		NR		NR	
Benzene	44	0.0012	U H	0.016	U H	0.0013	U H	0.00076	U	0.00077	U	0.0021		0.00080	U	0.00075	U	0.0015	U	0.0043	
Bromodichloromethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00031	U	NR		NR	
Bromoform	NA	NR		NR		NR		NR		NR		NR		NR		0.00071	U	NR		NR	
Bromomethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00041	U	NR		NR	
Carbon disulfide	NA	NR		NR		NR		NR		NR		NR		NR		0.00047	U	NR		NR	
Carbon tetrachloride	22	NR		NR		NR		NR		NR		NR		NR		0.00010	U	NR		NR	
Chlorobenzene	500	NR		NR		NR		NR		NR		NR		NR		0.00049	U	NR		NR	
Chloroethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00040	U	NR		NR	
Chloroform	350	NR		NR		NR		NR		NR		NR		NR		0.00024	U	NR		NR	
Chloromethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00064	U	NR		NR	
cis-1,2-Dichloroethene	500	NR		NR		NR		NR		NR		NR		NR		0.00024	U	NR		NR	
cis-1,3-Dichloropropene	NA	NR		NR		NR		NR		NR		NR		NR		0.00020	U	NR		NR	
Dibromochloromethane	NA	NR		NR		NR		NR		NR		NR		NR		0.00057	U	NR		NR	
Ethylbenzene	390	0.00032	U H	0.032	U H	0.00033	U H	0.00037	J	0.00020	U	0.00037	J	0.00021	U	0.00019	U	0.00039	U	0.0013	
Methylene Chloride	500	NR		NR		NR		NR		NR		NR		NR		0.00048	U	NR		NR	
Styrene	NA	NR		NR		NR		NR		NR		NR		NR		0.00035	U	NR		NR	
Tetrachloroethene	150	NR		NR		NR		NR		NR		NR		NR		0.00033	U	NR		NR	
Toluene	500	0.00050	U H	0.012	U H	0.00051	U H	0.00093	J	0.00031	U	0.00096		0.00032	U	0.00030	U	0.00061	U	0.00063	J
trans-1,2-Dichloroethene	500	NR		NR		NR		NR		NR		NR		NR		0.00029	U	NR		NR	
trans-1,3-Dichloropropene	NA	NR		NR		NR		NR		NR		NR		NR		0.00022	U	NR		NR	
Trichloroethene	200	NR		NR		NR		NR		NR		NR		NR		0.00037	U	NR		NR	
Vinyl chloride	13	NR		NR		NR		NR		NR		NR		NR		0.00024	U	NR		NR	
Xylenes, Total	500	0.0013	U H	0.057	U H	0.0014	U H	0.0019	J	0.00081	U	0.00071	U	0.00084	U	0.00080	U	0.0016	U	0.005	
Total Confident Conc.		0		0		0		0.0032		0		0.00343		0		0.017		0		0.01123	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0		0		0		0	

NR: Not analyzed.
H: Sample was prepped or analyzed beyond the specified holding time
J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U: Indicates the analyte was analyzed for but not detected.

Table 1 (continued)
Soil Sampling Analytical Results
Semi Volatile Organic Compounds
Soil Boring Investigation
Food Center Drive, Bronx, New York

Sample ID	NY 375-6.8b	SB-1 5.5'-6'		SB-5 7.5'-8'		SB-10 5.5'-6'		SB-13 5.5'-6'		SB-18 5.5'-6'		SB-21 4'-4.5'		SB-29 5.5'-6'		DUP11112		SB-33 4.5'-5'		SB-37 2'-2.5'_DL	
Lab Sample No.	& CP-51 T-1	460-35644-001		460-35644-002		460-35644-003		460-35644-004		460-35644-005		460-35644-006		460-35644-007		460-35644-008		460-35644-009		460-35644-010_DL	
Sampling Date	Soil Cleanup Commercial	1/9/2012		1/9/2012		1/9/2012		1/10/2012		1/10/2012		1/10/2012		1/11/2012		1/11/2012		1/11/2012		1/11/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		2		1		1		1		1		1		1		1		1		20	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																					
1,2,4-Trichlorobenzene	NA	0.013	U	0.0064	U	0.0078	U	0.0058	U	0.0057	U	0.0059	U	0.0064	U	0.0064	U	0.0062	U	0.13	U
1,2-Dichlorobenzene	500	0.12	U	0.063	U	0.076	U	0.056	U	0.056	U	0.057	U	0.063	U	0.063	U	0.061	U	1.3	U
1,3-Dichlorobenzene	280	0.11	U	0.054	U	0.065	U	0.048	U	0.048	U	0.049	U	0.054	U	0.054	U	0.052	U	1.1	U
1,4-Dichlorobenzene	130	0.12	U	0.059	U	0.071	U	0.053	U	0.052	U	0.054	U	0.059	U	0.059	U	0.057	U	1.2	U
2,4-Dinitrotoluene	NA	0.023	U	0.012	U	0.014	U	0.010	U	0.010	U	0.010	U	0.011	U	0.011	U	0.011	U	0.23	U
2,6-Dinitrotoluene	NA	0.020	U	0.010	U	0.012	U	0.0089	U	0.0088	U	0.0091	U	0.010	U	0.010	U	0.0097	U	0.20	U
2-Chloronaphthalene	NA	0.11	U	0.056	U	0.067	U	0.050	U	0.049	U	0.051	U	0.055	U	0.056	U	0.054	U	1.1	U
2-Methylnaphthalene	NA	1.1		0.058	U	0.069	U	0.051	U	0.051	U	0.089	J	0.18	J	0.093	J	0.83		3.0	J D
2-Nitroaniline	NA	0.21	U	0.11	U	0.13	U	0.096	U	0.095	U	0.098	U	0.11	U	0.11	U	0.10	U	2.2	U
3,3'-Dichlorobenzidine	NA	0.17	U	0.087	U	0.11	U	0.078	U	0.077	U	0.079	U	0.087	U	0.087	U	0.084	U	1.8	U
3-Nitroaniline	NA	0.18	U	0.089	U	0.11	U	0.080	U	0.079	U	0.081	U	0.089	U	0.089	U	0.086	U	1.8	U
4-Bromophenyl phenyl ether	NA	0.14	U	0.070	U	0.085	U	0.063	U	0.062	U	0.064	U	0.070	U	0.070	U	0.068	U	1.4	U
4-Chloroaniline	NA	0.098	U	0.050	U	0.060	U	0.044	U	0.044	U	0.045	U	0.049	U	0.049	U	0.048	U	1.0	U
4-Chlorophenyl phenyl ether	NA	0.13	U	0.068	U	0.082	U	0.061	U	0.060	U	0.062	U	0.067	U	0.068	U	0.065	U	1.4	U
4-Nitroaniline	NA	0.16	U	0.081	U	0.098	U	0.073	U	0.072	U	0.074	U	0.081	U	0.081	U	0.079	U	1.6	U
Acenaphthene	500	0.21	J	0.056	U	0.068	U	0.050	U	0.050	U	0.051	U	0.088	J	0.056	U	0.060	J	15	D
Acenaphthylene	500	1.1		0.056	U	0.14	J	0.050	U	0.050	U	0.051	U	0.079	J	0.056	U	0.054	U	11	D
Anthracene	500	1.5		0.16	J	0.22	J	0.062	U	0.061	U	0.063	U	0.39		0.19	J	0.24	J	34	D
Benzo[a]anthracene	5.6	5.0		0.68		2.2		0.0065	U	0.0064	U	0.20		1.7		0.64		0.44		**39**	D
Benzo[a]pyrene	1	**7.5**		0.73		**2.1**		0.0043	U	0.0043	U	0.27		**2.2**		0.76		0.39		**34**	D
Benzo[b]fluoranthene	5.6	**6.5**		0.81		4.7		0.0052	U	0.0052	U	0.40		2.1		0.84		0.58		**29**	D
Benzo[g,h,i]perylene	500	11		0.67		2.8		0.037	U	0.037	U	0.36		1.9		0.52		0.22	J	21	D
Benzo[k]fluoranthene	56	2.6		0.36		1.7		0.0049	U	0.0049	U	0.14		0.98		0.32		0.21		12	D
bis (2-chloroisopropyl) ether	NA	0.10	U	0.052	U	0.062	U	0.046	U	0.046	U	0.047	U	0.051	U	0.052	U	0.050	U	1.0	U
Bis(2-chloroethoxy)methane	NA	0.11	U	0.056	U	0.068	U	0.050	U	0.050	U	0.051	U	0.056	U	0.056	U	0.054	U	1.1	U
Bis(2-chloroethyl)ether	NA	0.016	U	0.0082	U	0.0099	U	0.0073	U	0.0072	U	0.0075	U	0.0082	U	0.0082	U	0.0079	U	0.17	U
Bis(2-ethylhexyl) phthalate	NA	0.10	U	0.052	U	0.063	U	0.047	U	0.046	U	0.048	U	0.052	U	0.052	U	0.051	U	1.1	U
Butyl benzyl phthalate	NA	0.091	U	0.046	U	0.056	U	0.041	U	0.041	U	0.042	U	0.046	U	0.046	U	0.044	U	0.93	U
Carbazole	NA	0.16	J	0.063	U	0.076	U	0.056	U	0.055	U	0.057	U	0.084	J	0.063	U	0.088	J	4.9	J D
Chrysene	56	6.3		0.69		2.8		0.051	U	0.051	U	0.31	J	1.8		0.70		0.53		40	D
Dibenz(a,h)anthracene	0.56	**0.96**		0.098		**0.93**		0.0042	U	0.0042	U	0.046		0.37		0.098		0.069		**5.9**	D
Dibenzofuran	350	0.12	U	0.059	U	0.071	U	0.053	U	0.052	U	0.054	U	0.14	J	0.084	J	0.40		7.5	J D
Diethyl phthalate	NA	0.10	U	0.053	U	0.064	U	0.047	U	0.047	U	0.048	U	0.053	U	0.053	U	0.051	U	1.1	U
Dimethyl phthalate	NA	0.11	U	0.053	U	0.064	U	0.048	U	0.047	U	0.049	U	0.053	U	0.053	U	0.051	U	1.1	U
Di-n-butyl phthalate	NA	0.12	U	0.060	U	0.073	U	0.054	U	0.053	U	0.055	U	0.060	U	0.060	U	0.058	U	1.2	U
Di-n-octyl phthalate	NA	0.092	U	0.047	U	0.057	U	0.042	U	0.041	U	0.043	U	0.047	U	0.047	U	0.045	U	0.95	U
Fluoranthene	500	7.9		1.1		2.2		0.059	U	0.058	U	0.34	J	2.4		1.2		0.77		68	D
Fluorene	500	1.2		0.067	U	0.081	U	0.060	U	0.059	U	0.061	U	0.14	J	0.082	J	0.064	U	35	D
Hexachlorobenzene	6	0.011	U	0.0055	U	0.0066	U	0.0049	U	0.0048	U	0.005	U	0.0054	U	0.0055	U	0.0053	U	0.11	U
Hexachlorobutadiene	NA	0.031	U	0.016	U	0.019	U	0.014	U	0.014	U	0.015	U	0.016	U	0.016	U	0.015	U	0.32	U
Hexachlorocyclopentadiene	NA	0.23	U	0.12	U	0.14	U	0.10	U	0.10	U	0.10	U	0.11	U	0.11	U	0.11	U	2.3	U
Hexachloroethane	NA	0.013	U	0.0066	U	0.008	U	0.0059	U	0.0059	U	0.0061	U	0.0066	U	0.0066	U	0.0064	U	0.13	U
Indeno[1,2,3-cd]pyrene	5.6	**8.6**		0.63		3.3		0.0056	U	0.0056	U	0.30		1.7		0.50		0.22		**16**	D
Isophorone	NA	0.089	U	0.045	U	0.055	U	0.040	U	0.040	U	0.041	U	0.085	J	0.045	U	0.044	U	0.92	U
Naphthalene	500	0.86		0.058	U	0.070	U	0.051	U	0.051	U	0.15	J	0.30	J	0.18	J	0.50		7.7	J D
Nitrobenzene	69	0.017	U	0.0088	U	0.011	U	0.0079	U	0.0078	U	0.008	U	0.0088	U	0.0088	U	0.0085	U	0.18	U
N-Nitrosodi-n-propylamine	NA	0.010	U	0.0052	U	0.0063	U	0.0046	U	0.0046	U	0.0047	U	0.0052	U	0.0052	U	0.005	U	0.11	U
N-Nitrosodiphenylamine	NA	0.13	U	0.064	U	0.078	U	0.057	U	0.057	U	0.059	U	0.064	U	0.064	U	0.062	U	1.3	U
Phenanthrene	500	8.6		0.59		0.68		0.061	U	0.061	U	0.20	J	1.1		0.51		1.2		130	D
Pyrene	500	13		1.2		2.0		0.061	U	0.060	U	0.37		2.8		1.2		0.50		82	D
Total Confident Conc.		84.09		7.718		25.77		0		0		3.175		20.536		7.917		7.247		595	
Total Estimated Conc. (TICs)		34		2.23		12.7		0		0		0.32		5.4		0.95		111.67		366	

NR: Not analyzed.
D: Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
U: Indicates the analyte was analyzed for but not detected.
8.6 - Exceedance of Applicable Criteria

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Table 1 (continued)
Soil Sampling Analytical Results
DRO, PCBs, Lead, Mercury and Cyanide
Soil Boring Investigation
Food Center Drive, Bronx, New York

Sample ID	NY 375-6.8b	SB-1 5.5'-6'		SB-5 7.5'-8'		SB-10 5.5'-6'		SB-13 5.5'-6'		SB-18 5.5'-6'		SB-21 4'-4.5'		SB-29 5.5'-6'		DUP11112		SB-33 4.5'-5'		SB-37 2'-2.5'	
Lab Sample No.	& CP-51 T-1	460-35644-001		460-35644-002		460-35644-003		460-35644-004		460-35644-005		460-35644-006		460-35644-007		460-35644-008		460-35644-009		460-35644-010	
Sampling Date	Soil Cleanup Commercial	1/9/2012		1/9/2012		1/9/2012		1/10/2012		1/10/2012		1/10/2012		1/11/2012		1/11/2012		1/11/2012		1/11/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		10		10		1		10		1		1		1		1		1		10	
Units		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
SEMIVOLATILE COMPOUNDS (GC)																					
Diesel Range Organics (C10-C44)	NA	3200		640		400		690		33		57		150		95		160		3600	
PCBs																					
PCB-1016	1 (Total PCBs)	0.015	U	0.015	U	0.018	U	0.014	U	0.013	U	0.014	U	0.015	U	0.015	U	0.015	U	0.015	U
PCB-1221	1 (Total PCBs)	0.024	U	0.024	U	0.029	U	0.021	U	0.021	U	0.022	U	0.024	U	0.024	U	0.023	U	0.024	U
PCB-1232	1 (Total PCBs)	0.045	U	0.045	U	0.055	U	0.040	U	0.040	U	0.041	U	0.045	U	0.045	U	0.044	U	0.046	U
PCB-1242	1 (Total PCBs)	0.015	U	0.015	U	0.018	U	0.014	U	0.013	U	0.014	U	0.015	U	0.015	U	0.015	U	0.015	U
PCB-1248	1 (Total PCBs)	0.021	U	0.021	U	0.026	U	0.019	U	0.019	U	0.019	U	0.021	U	0.021	U	0.021	U	0.021	U
PCB-1254	1 (Total PCBs)	0.027	U	0.027	U	0.033	U	0.024	U	0.024	U	0.025	U	0.027	U	0.027	U	0.026	U	0.028	U
PCB-1260	1 (Total PCBs)	0.0088	U	0.0089	U	0.011	U	0.008	U	0.0079	U	0.0081	U	0.0089	U	0.0089	U	0.0086	U	0.009	U
PCB-1262	1 (Total PCBs)	0.014	U	0.014	U	0.017	U	0.012	U	0.012	U	0.013	U	0.014	U	0.014	U	0.013	U	0.014	U
PCB-1268	1 (Total PCBs)	0.014	U	0.014	U	0.017	U	0.012	U	0.012	U	0.013	U	0.014	U	0.014	U	0.013	U	0.014	U
METALS																					
Lead	1000	317		55.8		6.3		4.0		38.6		229		244		44.0		93.6		678	
Mercury	2.8	0.93		2.7		0.023	U	0.023	U	0.077		1.0		0.15		0.068		0.24		1.7	
WET CHEMISTRY																					
Cyanide, Total (mg/Kg)	27	78.2		764		0.057	U	0.057	U	0.42	J	0.65		0.80		4.4		37.0		0.40	J

NR: Not analyzed.

Table 2
Soil Sampling Analytical Results
Volatile Organic Compounds
Soil Boring Investigation
Food Center Drive
Bronx, New York

Sample ID	NY 375-6.8b	SB-39 4'-4.5'		SB-47 4'-4.5'		SB-52 1'-1.5'		SB-40 4'-4.5'		SB-43 7.5'-8'		SB-46 7.5'-8'		SB-34 6.5'-7'		SB-45 7'-7.5'		SB-58 7'-7.5'	
Lab Sample No.	& CP-51 T-1	460-35756-001		460-35756-005		460-35756-006		460-35756-002		460-35756-003		460-35756-004		460-35867-003		460-35867-004		460-35867-006	
Sampling Date	Soil Cleanup Commercial	1/12/2012		1/13/2012		1/13/2012		1/12/2012		1/12/2012		1/12/2012		1/16/2012		1/16/2012		1/16/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		1		1		1		250		50		50		1		1		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
VOLATILE COMPOUNDS (GC/MS)																			
Benzene	44	0.0037		0.030		0.0062		4.1		0.52		1.2		0.0092		0.066		0.0012	U
Ethylbenzene	390	0.001	J	0.031		0.0021		0.84		11		4.1		0.0017	J	0.00090	J	0.00031	U
Toluene	500	0.0012	J	0.0029		0.0036		5.6		0.92		0.26		0.0081		0.00082	J	0.00048	U
Xylenes, Total	500	0.0031	J	0.049		0.0029	J	16		18		5.0		0.011		0.011		0.0013	U
Total Confident Conc.		0.009		0.1129		0.0148		26.54		30.44		10.56		0.03		0.07872		0	
Total Estimated Conc. (TICs)		0		0		0		0		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

Table 2 (continued)
Soil Sampling Analytical Results
Semi-Volatile Organic Compounds
Soil Boring Investigation
Food Center Drive
Bronx, New York

Sample ID	NY 375-6.8b	SB-39 4'-4.5'_DL		SB-40 4'-4.5'_DL		SB-43 7.5'-8'		SB-46 7.5'-8'_DL		SB-47 4'-4.5'_DL		SB-52 1'-1.5'		SB-34 6.5'-7'		SB-45 7'-7.5'_DL		SB-58 7'-7.5'	
Lab Sample No.	& CP-51 T-1	460-35756-001_DL		460-35756-002_DL		460-35756-003		460-35756-004_DL		460-35756-005_DL		460-35756-006		460-35867-003		460-35867-004_DL		460-35867-006	
Sampling Date	Soil Cleanup Commercial	1/12/2012		1/12/2012		1/12/2012		1/12/2012		1/13/2012		1/13/2012		1/16/2012		1/16/2012		1/16/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		20		100		2		25		10		5		5		10		1	
Units	mg/kg	mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg		mg/kg	
SEMIVOLATILE COMPOUNDS (GC/MS)																			
1,2,4-Trichlorobenzene	NA	0.13	U	0.62	U	0.013	U	0.16	U	0.063	U	0.029	U	0.044	U	0.072	U	0.0063	U
1,2-Dichlorobenzene	500	1.2	U	6.1	U	0.12	U	1.6	U	0.62	U	0.28	U	0.43	U	0.70	U	0.062	U
1,3-Dichlorobenzene	280	1.1	U	5.2	U	0.11	U	1.3	U	0.53	U	0.24	U	0.37	U	0.60	U	0.053	U
1,4-Dichlorobenzene	130	1.2	U	5.7	U	0.12	U	1.5	U	0.58	U	0.26	U	0.40	U	0.66	U	0.057	U
2,4-Dinitrotoluene	NA	0.23	U	1.1	U	0.023	U	0.28	U	0.11	U	0.051	U	0.079	U	0.13	U	0.011	U
2,6-Dinitrotoluene	NA	0.20	U	0.96	U	0.020	U	0.25	U	0.098	U	0.045	U	0.069	U	0.11	U	0.0098	U
2-Chloronaphthalene	NA	1.1	U	5.3	U	0.11	U	1.4	U	0.55	U	0.25	U	0.38	U	0.62	U	0.054	U
2-Methylnaphthalene	NA	19	D	150	D	6.0		36	D	7.2	D	0.41	J	2.9		1.5	J D	0.056	U
2-Nitroaniline	NA	2.1	U	10	U	0.21	U	2.7	U	1.1	U	0.48	U	0.74	U	1.2	U	0.11	U
3,3'-Dichlorobenzidine	NA	1.7	U	8.4	U	0.17	U	2.2	U	0.85	U	0.39	U	0.60	U	0.97	U	0.085	U
3-Nitroaniline	NA	1.8	U	8.6	U	0.18	U	2.2	U	0.87	U	0.40	U	0.61	U	1.0	U	0.087	U
4-Bromophenyl phenyl ether	NA	1.4	U	6.7	U	0.14	U	1.7	U	0.69	U	0.31	U	0.48	U	0.78	U	0.069	U
4-Chloroaniline	NA	0.98	U	4.8	U	0.098	U	1.2	U	0.49	U	0.22	U	0.34	U	0.55	U	0.048	U
4-Chlorophenyl phenyl ether	NA	1.3	U	6.5	U	0.13	U	1.7	U	0.66	U	0.30	U	0.47	U	0.76	U	0.066	U
4-Nitroaniline	NA	1.6	U	7.8	U	0.16	U	2.0	U	0.80	U	0.36	U	0.56	U	0.91	U	0.079	U
Acenaphthene	500	31	D	23	D	3.6		42	D	10	D	1.2	J	0.52	J	15	D	0.078	J
Acenaphthylene	500	5.2	D	130	D	1.8		5.1	D	1.1	D	1.8		0.72	J	1.7	J D	0.055	U
Anthracene	500	34	D	190	D	5.5		42	D	9.9	D	8.0		11		24	D	0.35	J
Benzo[a]anthracene	5.6	**35**	D	**210**	D	4.8		**42**	D	**9.8**	D	**11**		**9.5**		**34**	D	1.1	
Benzo[a]pyrene	1	**32**	D	**180**	D	**4.1**		**40**	D	**9.2**	D	**11**		**7.6**		**23**	D	0.87	
Benzo[b]fluoranthene	5.6	**26**	D	**170**	D	3.7		**34**	D	**8.2**	D	**9.9**		**8.3**		**26**	D	0.96	
Benzo[g,h,i]perylene	500	28	D	120	D	2.8		33	D	7.5	D	7.8		5.8		16	D	0.50	
Benzo[k]fluoranthene	56	12	D	**84**	D	1.7		14	D	3.6	D	3.7		3.3		9.5	D	0.33	
bis (2-chloroisopropyl) ether	NA	1.0	U	5.0	U	0.10	U	1.3	U	0.51	U	0.23	U	0.36	U	0.58	U	0.050	U
Bis(2-chloroethoxy)methane	NA	1.1	U	5.4	U	0.11	U	1.4	U	0.55	U	0.25	U	0.39	U	0.63	U	0.055	U
Bis(2-chloroethyl)ether	NA	0.16	U	0.79	U	0.016	U	0.20	U	0.080	U	0.037	U	0.056	U	0.092	U	0.008	U
Bis(2-ethylhexyl) phthalate	NA	1.0	U	5.0	U	0.10	U	2.5	D	0.51	U	0.23	U	0.36	U	0.58	U	0.051	U
Butyl benzyl phthalate	NA	0.91	U	4.4	U	0.091	U	1.1	U	0.45	U	0.20	U	0.32	U	0.51	U	0.045	U
Carbazole	NA	7.9	D	97	D	4.3		15	D	7.0	D	0.38	J	1.2	J	7.6	D	0.096	J
Chrysene	56	37	D	**180**	D	4.6		42	D	9.7	D	12		9.2		36	D	1.1	
Dibenz(a,h)anthracene	0.56	**6.1**	D	**29**	D	**0.68**		**7.1**	D	**1.5**	D	**2.1**		**1.5**		**3.7**	D	0.16	
Dibenzofuran	350	17	D	190	D	3.9		27	D	7.7	D	1.5	J	8.1		8.3	D	0.058	U
Diethyl phthalate	NA	1.0	U	5.1	U	0.10	U	1.3	U	0.52	U	0.24	U	0.36	U	0.59	U	0.052	U
Dimethyl phthalate	NA	1.0	U	5.1	U	0.10	U	1.3	U	0.52	U	0.24	U	0.37	U	0.60	U	0.052	U
Di-n-butyl phthalate	NA	1.2	U	5.8	U	0.12	U	1.5	U	0.59	U	0.27	U	0.41	U	0.67	U	0.059	U
Di-n-octyl phthalate	NA	0.92	U	4.5	U	0.092	U	1.2	U	0.46	U	0.21	U	0.32	U	0.52	U	0.046	U
Fluoranthene	500	61	D	510	D	11		86	D	19	D	20		18		87	D	2.2	
Fluorene	500	38	D	280	D	6.4		46	D	12	D	0.92	J	16		18	D	0.097	J
Hexachlorobenzene	6	0.11	U	0.53	U	0.011	U	0.14	U	0.054	U	0.024	U	0.038	U	0.061	U	0.0053	U
Hexachlorobutadiene	NA	0.31	U	1.5	U	0.031	U	0.39	U	0.16	U	0.071	U	0.11	U	0.18	U	0.016	U
Hexachlorocyclopentadiene	NA	2.3	U	11	U	0.23	U	2.8	U	1.1	U	0.51	U	0.79	U	1.3	U	0.11	U
Hexachloroethane	NA	0.13	U	0.64	U	0.013	U	0.16	U	0.065	U	0.030	U	0.046	U	0.074	U	0.0065	U
Indeno[1,2,3-cd]pyrene	5.6	**26**	D	**130**	D	2.8		**30**	D	**6.9**	D	**8.2**		**5.7**		**15**	D	0.55	
Isophorone	NA	0.89	U	4.4	U	0.089	U	1.1	U	0.44	U	0.20	U	0.31	U	0.51	U	0.044	U
Naphthalene	500	27	D	410	D	13		78	D	18	D	1.5	J	7.6		3.0	J D	0.056	U
Nitrobenzene	69	0.17	U	0.85	U	0.017	U	0.22	U	0.086	U	0.039	U	0.061	U	0.099	U	0.0086	U
N-Nitrosodi-n-propylamine	NA	0.10	U	0.50	U	0.010	U	0.13	U	0.051	U	0.023	U	0.036	U	0.058	U	0.0051	U
N-Nitrosodiphenylamine	NA	1.3	U	6.2	U	0.13	U	1.6	U	0.63	U	0.29	U	0.44	U	0.72	U	0.063	U
Phenanthrene	500	130	D	840	D	19		170	D	39	D	5.2		46		75	D	1.3	
Pyrene	500	71	D	420	D	9.9		99	D	23	D	17		13		63	D	1.3	
Total Confident Conc.		643.2		4343		109.58		890.7		210.3		123.61		175.94		467.3		10.991	
Total Estimated Conc. (TICs)		246		925		30.2		321		46.4		48.6		70.7		137.2		5.08	

NR: Not analyzed.

D: Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.

U: Indicates the analyte was analyzed for but not detected.

8.6 - Exceedance of Applicable Criteria

Table 2 (continued)
Soil Sampling Analytical Results
DRO, PCBs, Lead, Mercury and Cyanide
Soil Boring Investigation
Food Center Drive, Bronx, New York

Sample ID	NY 375-6.8b	SB-39 4'-4.5'		SB-40 4'-4.5'		SB-43 7.5'-8'		SB-46 7.5'-8'		SB-47 4'-4.5'		SB-52 1'-1.5'		SB-34 6.5'-7'		SB-45 7'-7.5'		SB-58 7'-7.5'	
Lab Sample No.	& CP-51 T-1	460-35756-001		460-35756-002		460-35756-003		460-35756-004		460-35756-005		460-35756-006		460-35867-003		460-35867-004		460-35867-006	
Sampling Date	Soil Cleanup Commercial	1/12/2012		1/12/2012		1/12/2012		1/12/2012		1/13/2012		1/13/2012		1/16/2012		1/16/2012		1/16/2012	
Matrix	Criteria	Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid		Solid	
Dilution Factor		100		100		10		10		1		10		10		10		10	
Units		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg		mg/Kg	
SEMIVOLATILE COMPOUNDS (GC)																			
Diesel Range Organics (C10-C44)	NA	3700		6900		760		2200		170		250		1900		450		460	
PCBs																			
PCB-1016	1 (Total PCBs)	0.015	U	0.015	U	0.015	U	0.15	U	0.015	U	0.014	U	0.021	U	0.017	U	0.015	U
PCB-1221	1 (Total PCBs)	0.024	U	0.023	U	0.024	U	0.24	U	0.024	U	0.021	U	0.033	U	0.027	U	0.023	U
PCB-1232	1 (Total PCBs)	0.044	U	0.044	U	0.045	U	0.45	U	0.044	U	0.040	U	0.062	U	0.051	U	0.044	U
PCB-1242	1 (Total PCBs)	0.015	U	0.015	U	0.015	U	0.15	U	0.015	U	0.013	U	0.021	U	0.017	U	0.015	U
PCB-1248	1 (Total PCBs)	0.021	U	0.020	U	0.021	U	0.21	U	0.021	U	0.019	U	0.029	U	0.024	U	0.021	U
PCB-1254	1 (Total PCBs)	0.027	U	0.026	U	0.027	U	0.27	U	0.027	U	0.024	U	0.037	U	0.030	U	0.027	U
PCB-1260	1 (Total PCBs)	0.14		0.0086	U	0.0088	U	**9.0**		0.068	J	0.008	U	0.012	U	0.051	J	0.0087	U
PCB-1262	1 (Total PCBs)	0.013	U	0.013	U	0.013	U	0.14	U	0.013	U	0.012	U	0.019	U	0.015	U	0.013	U
PCB-1268	1 (Total PCBs)	0.013	U	0.013	U	0.013	U	0.14	U	0.013	U	0.012	U	0.019	U	0.015	U	0.013	U
METALS																			
Lead	1000	126		6.8		16.3		348		12.0		5.7		46.0		699		239	
Mercury	2.8	0.18		0.068		0.072		0.35		0.13		0.28		**5.4**		0.85		1.4	
WET CHEMISTRY																			
Cyanide, Total (mg/Kg)	27	3.5		1.2		1.7		3.6		0.28	J	20.0		792		25.8		0.44	J

U: Indicates the analyte was analyzed for but not detected.

Table 3
Groundwater Sampling Analaytical Results
BTEX Compounds
Temporary Well Points (SB-18W SB-23W)
Food Center Drive
Bronx, New York

Sample ID	NYSDEC	SB-23W		DUP11612		SB-18W		TRIP		FBW11612	
Lab Sample No.	Groundwater	460-35867-001		460-35867-002		460-35867-005		460-35867-008		460-35867-009	
Sampling Date	Standard	1/16/2012		1/16/2012		1/16/2012		1/16/2012		1/16/2012	
Matrix	ug/L	Water		Water		Water		Water		Water	
Dilution Factor		1		1		1		1		1	
Units	ug/L	ug/L		ug/L		ug/L		ug/L		ug/L	
VOLATILE COMPOUNDS (GC/MS)											
1,1,1-Trichloroethane	NA	NR		NR		NR		0.25	U	NR	
1,1,2,2-Tetrachloroethane	NA	NR		NR		NR		0.090	U	NR	
1,1,2-Trichloroethane	NA	NR		NR		NR		0.10	U	NR	
1,1-Dichloroethane	NA	NR		NR		NR		0.10	U	NR	
1,1-Dichloroethene	NA	NR		NR		NR		0.14	U	NR	
1,2-Dichloroethane	NA	NR		NR		NR		0.24	U	NR	
1,2-Dichloropropane	NA	NR		NR		NR		0.090	U	NR	
2-Butanone	NA	NR		NR		NR		0.82	U	NR	
2-Hexanone	NA	NR		NR		NR		0.55	U	NR	
4-Methyl-2-pentanone	NA	NR		NR		NR		0.68	U	NR	
Acetone	NA	NR		NR		NR		2.5	U	NR	
Benzene	0.7	0.13	J	0.13	U	0.13	U	0.13	U	0.13	U
Bromodichloromethane	NA	NR		NR		NR		0.093	U	NR	
Bromoform	NA	NR		NR		NR		0.10	U	NR	
Bromomethane	NA	NR		NR		NR		0.31	U	NR	
Carbon disulfide	NA	NR		NR		NR		0.15	U	NR	
Carbon tetrachloride	NA	NR		NR		NR		0.19	U	NR	
Chlorobenzene	NA	NR		NR		NR		0.16	U	NR	
Chloroethane	NA	NR		NR		NR		0.45	U	NR	
Chloroform	NA	NR		NR		NR		0.15	U	NR	
Chloromethane	NA	NR		NR		NR		0.21	U	NR	
cis-1,2-Dichloroethene	NA	NR		NR		NR		0.20	U	NR	
cis-1,3-Dichloropropene	NA	NR		NR		NR		0.11	U	NR	
Dibromochloromethane	NA	NR		NR		NR		0.11	U	NR	
Ethylbenzene	5	0.25	U	0.25	U	0.33	J	0.25	U	0.25	U
Methylene Chloride	NA	NR		NR		NR		0.19	U	NR	
Styrene	NA	NR		NR		NR		0.13	U	NR	
Tetrachloroethene	NA	NR		NR		NR		0.20	U	NR	
Toluene	5	0.090	U	0.090	U	0.28	J	0.090	U	0.090	U
trans-1,2-Dichloroethene	NA	NR		NR		NR		0.14	U	NR	
trans-1,3-Dichloropropene	NA	NR		NR		NR		0.12	U	NR	
Trichloroethene	NA	NR		NR		NR		0.18	U	NR	
Vinyl chloride	NA	NR		NR		NR		0.13	U	NR	
Xylenes, Total	5	0.43	U	0.43	U	0.43	U	0.43	U	0.43	U
Total Confident Conc.		0.13		0		0.61		0		0	
Total Estimated Conc. (TICs)		0		0		0		0		0	

NR: Not analyzed.

J: Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U: Indicates the analyte was analyzed for but not detected.

APPENDIX A

Soil Boring logs

Borehole Number: SB-1

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Nielsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0					
1	Fill (Black vf.-f. SAND, trace clay, some f.-c. sand and f. gravel.	1			0.8	0.0	
5	Black vc.- f. SAND, trace slag, 8.5-8.8 Brown f SAND, tr. silt, moist - wet.	5	1		3.6	0.7	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-9-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-2

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Nielsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
	Asphalt and Concrete						
1	Fill (Gray/Yellow tr. Black f. SAND, trace vf. sand, some slag.	1			3.0	0.1	
5	Brown & Gray vc.- f. SAND, trace ceramic.	5			3.0	0.1	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-9-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-3

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		4.9	0-0.1	
1	Fill (Dark brown c.-f. SAND, some f. angular gravel, little coal ash and slag).	1					
5	Dark brown to black c.- f. SAND, some c.-f. angular gravel, little coal,some glass, slag, and ceramic at 9'-10').	5	2		4	0-0.1	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-4

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		2.7	0-0.1	
1	Fill (Black to dark brown c.-f. SAND, some f. angular gravel, little coal ash and slag).	1					
5	Fill (Black c.-f. SAND).	5	2		2.8	0-0.1	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-5

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		3.4	0-0.1	
1	Fill (Dark brown m.-f. SAND, some f. angular gravel, crushed concrete and glass, little clay).	1					
5	Fill (Brown m-f. SAND, some Silt and f. Gravel, little concrete, wood at 7.5'-8', slight creosote-like odor).	5	2		3.3	1.5	Collected soil sample SB-5 from 7.5' to 8' below grade.
7	Gray f. SAND and SILT, wet at 8'-10').	7					
10	End of Borehole	10					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-6

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.3	0-0.1	
1	Fill (Brown m.-f. SAND, little silt, trace clay, f. angular gravel, wood, coal ash, and concrete).	1					
2		2					
3		3					
4		4					
5	Fill (5'-5.5' Brown m-f. SAND, some f. Gravel, little silt and concrete 7.5'-8', slight creosote-like odor).	5	2		5	0-0.1	
6	Fill (5.5'-10' Dark Gray CLAY, little silt, trace f. sand).	6					
7		7					Collected soil sample SB-5 from 7.5' to 8' below grade.
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-7

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
	Asphalt and Concrete		1		3	0-0.1	
1	Fill (Brown c.-f. SAND, some f. angular gravel, little concrete and brick).	1					
2		2					
3		3					
4		4					
5	Fill (5'-5.5' Brown m-f. SAND, some Silt, little f. Gravel, c. gravel at 9'-10').	5	2		3.9	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-8

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		2.6	0-0.1	
1		1					
1	Fill (Brown SILT, some f. Sand, trace coal).	1					
2		2					
3		3					
4		4					
5		5					
5	Fill (Brown SILT, some f.-m. Sand, little c. gravel at 7'-7.2' and 8.5'-8.9').	5	2		4	0-0.1	
6		6					
7		7					
8		8					
9		9					
10		10					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-9

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		3.4	0-0.1	
1		1					
1	Fill (Brown SILT, some Clay and m.-f. Sand, little f. gravel).	1					
2		2					
3		3					
4		4					
5		5					
5	Fill (Brown c.- f. SAND, some Silt and Clay, little c.-f. gravel, pieces of concrete at 5.5'-5.8 and 7'-7.2').	5	2		3.5	0-0.1	Collected soil sample SB-9 at the 5.5'-6' interval.
6		6					
7		7					
8		8					
9		9					
10		10					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-10

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.0	0-0.1	
1	Fill (Black vf - f. SAND, some f. gravel, black slag).	1					
2		2					
3		3					
4		4					
5	Fill (Black m-f SAND, some f-gravel and black/green/white slag from 5-7.)	5	2		2.8	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-9-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-11

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.9	0-0.1	
1		1					
2	Fill (Brown f.-m. SAND, little silt and f.-m. rounded gravel).	2					
3		3					
4		4					
5	Fill (Brown).	5	2		2.6	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-12

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		2.9	0	
1		1					
2	Fill (Brown to dark brown f.-m. SAND, some f.-m. subangular gravel, little silt, concrete, brick).	2					
3		3					
4	Fill (Light brown m.-f. SAND, little silt from 4'-5').	4					
5		5	2		2.6		
6	Fill (Light brown).	6					
7		7					
8		8					
9		9					
10		10					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-13

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.9	0	
1	Fill (Light brown m.-f. SAND, little silt and m-f gravel).	1					
5	Fill (Light brown f SAND, little silt, m-f gravel).	5	2		3.4	0	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-14

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
	Asphalt and Concrete		1		1.8	0	
1		1					
	Fill (Brown f.-m. SAND, some m.-f. angular gravel, trace silt).						
2		2					
3		3					
4		4					
5		5					
	Fill (Brown m.-f. SAND, trace c. sand and f. gravel (5'-6.7').		2		2.7	0	
6		6					
	Fill (Coarse GRAVEL, some m.-f. Sand and brick pieces from 6.7' to 10').						
7		7					
8		8					
9		9					
10		10					
	End of Borehole						
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-15

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.5	0	
1	Fill (Black f. SAND, some Silt)	1					
2	Fill (Dark brown f. SAND, some Silt).	2					
3		3					
4		4					
5	Fill (Black to brown f. SAND, some Silt, crushed concrete trace c. gravel).	5	2		2	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-16

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.7	0	
1	Fill (Brown f.-m. SAND, little silt, trace c.-f. sand and c.-f. gravel).	1					
2		2					
3		3					
4		4					
5	Fill (Brown to darkbrown m.-f. SAND, some little silt).	5	2		3	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-17

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		3.2	0-0.1	
1		1					
2	Fill (Brown f. SAND, little silt and m.-f. gravel).	2					
3		3					
4		4					
5	Fill (Brown f. SAND, little silt, trace m.-c. sand and m.-f. gravel).	5	2		4	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-18

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		3.4	0-0.5	
1		1					
2	Fill (1.5'-2.1' Black f. SAND, little silt, trace organic-like matter, moist).	2					
3	Fill (2.1'-5' Brown f. SAND, little silt, trace clay and c.-f. gravel).	3					
4		4					
5		5					
5	Fill (Brown f. SAND, some silt, little c.-f. gravel and trace c. sand).	5	2		3.4	0-0.1	
6		6					
7		7					
8		8					
9		9					
10		10					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-18W

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					Installed temporary well point with 15 feet of 1" diameter, 0.010" PVC screen from 20'-5' below grade, and 5 feet of 1" diameter PVC solid casing from 5' to grade. Collected a groundwater sample from SB-18W.
0-2	Asphalt and Concrete	0-2	1		3.4	0-0.5	
2-5	Fill (1.5'-2.1' Black f. SAND, little silt, trace organic-like matter, moist). Fill (2.1'-5' Brown f. SAND, little silt, trace clay and c.-f. gravel).	2-5					
5-10	Fill (Brown f. SAND, some silt, little c.-f. gravel and trace c. sand).	5-10	2		3.4	0-0.1	
10-15	Fill (Brown f. SAND, some Silt, trace m. sand, large gravel at 13.8'-14.1', moist).	10-15	3		5	0	
15-20	Brown f. SAND, some Silt, trace m. sand and c. gravel at 19'.	15-20	4		3	NA	
20	End of Borehole	20					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-14-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-19

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		3.5	0-0.1	
1		1					
2	Fill (Brown to black f. SAND, some to little Silt, trace c. sand and f. gravel).	2					
3		3					
4		4					
5		5	2		2.6		
6	Fill (Dark brown f. SAND, some Silt, little).	6					
7		7					
8		8					
9		9					
10		10					
10	End of Borehole						
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-20

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.4	0-0.1	
1		1					
2	Fill (Black to dark brown m.- f. SAND, little m.-f. gravel and brick(1.5'-4')).	2					
3		3					
4	Fill (Brown m.-f. SAND, some Silt, little f.-m. gravel (4'-5')).	4					
5		5	2		1.6		
6	Fill (Pulverized Brick (0.3'), Dark brown m.-f. SAND,).	6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-21

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.3	0-0.1	
1		1					
2	Fill (Black to dark gray m.- f. SAND, some coal ash at 1.5' to 1.9' and 4' to 5', and slag at 4' to 5', some Silt and m.-f. gravel).	2					
3		3					
4		4					
5	Fill (SILT, some brick and slag at 5' to 5.5', and Clay, little m.-f. sand, brick, and ceramic-like material).	5	2		0.8	0-0.1	Collected soil sample SB-21 at 4'-4.5'.
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-22

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2.3	0-0.1	
1		1					
2	Fill (Black to dark brown m.- f. SAND, some silt, pieces of slag, brick, concrete).	2					
3		3					
4		4					
5	Fill (Black to dark brown f. SAND, some Silt, medium f. Gravel, Brick, trace c. gravel).	5	2		0.8	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-23

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Asphalt and Concrete	0	1		2	0-0.1	
1		1					
2	Fill (Black and brown m.- f. SAND, some Silt, coal slag from 2.4' to 2.7', little c.-f. gravel, pieces of brick, concrete).	2					
3		3					
4		4					
5	Fill (Reddish brown f. SAND, trace silt and concrete).	5	2		0.9	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-23W

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		2	0-0.1	
1		1					
2	Fill (Black and brown m.- f. SAND, some Silt, coal slag from 2.4' to 2.7', little c.-f. gravel, pieces of brick, concrete).	2					Installed temporary well point with 5' of 1" diameter, 0.010" slotted PVC screen from 11'-6' below grade, and 6' of 1" diameter PVC solid casing from 6' to grade.
3		3					
4		4					
5	Fill (Reddish brown f. SAND, trace silt and concrete).	5	2		0.9	0-0.1	
6		6					
7		7					Collected groundwater sample from temporary well point SB-23W.
8		8					
9		9					
10	Dark gray CLAY, some Silt.	10	3		2.4	NA	
11		11					
12		12					
13		13					
14		14					
15	End of Borehole	15					
16		16					
17		17					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-14-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-24

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
	Concrete Pavement		1		2	0-0.1	
1	Fill (Brown f. SAND, some Silt, trace m.- c. sand and f. gravel from 0.4'-1.5').	1					
2	Fill (Black m.-f. SAND, little silt, trace c. sand and c. gravel from 1.5'-5').	2					
3		3					
4		4					
5		5					
	Fill (Black m.-f. SAND, little silt, trace c. sand and c. gravel from 5' to 6.5').		2		2	0-0.1	
6	Fill (Black to brown m.-f. SAND, some Silt, little f. gravel from 6.5' to 7').	6					
7	Fill (Black to olive gray CLAY, some Silt from 7' to 8').	7					
8		8					
9		9					
10		10					
	End of Borehole						
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-25

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0	1				
	Concrete Pavement						
1	Fill ( ).	1					
2		2					
3		3					
4		4					
5	Fill (Brown f. SAND, some Silt, little clay and m.-f. gravel, coal slag at 9.5' to 10').	5	2		1.4	0-0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-10-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-26

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Asphalt and Concrete	0	1		3.1	0	
1		1					
2	Fill (Black f. SAND, little f. gravel, trace coal). Fill (Reddish brown c.GRAVEL, some f. Sand).	2					
3		3					
4		4					
5		5	2		1.2	0	
6	Fill (Reddish brown f. SAND, some Silt, trace m.-f. gravel from 5' to 5.3'). Fill (Black f. SAND, little silt, coal, brick, concrete).	6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-27

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		2	0	
1	Fill (Black to brown f.-m. SAND, little silt and clay, trace c.-f. gravel, brick).	1					
2		2					
3		3					
4		4					
5	Fill (Brown to dark brown f.-m. SAND, trace f. grave, coal, wood, metal).	5	2		1		
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-28

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3.7	0	
1	Fill (Black m.-f. SAND, trace f. gravel from 0.5'-0.7'). Fill (Brown f. SAND, some Clay, little m.-f. gravel, trace coal, moist). Fill (Black m.-f. SAND, some f. Gravel, trace silt, coal, concrete, coal slag).	1					
2		2					
3		3					
4		4					
5	Fill (Black m.-f. SAND, trace coal slag, glass, wood fragments).	5	2		0.9	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-29

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.3	0	
1	Fill (Dark brown to dark gray f. SAND, little silt and f.-m. gravel. .	1					
5	Fill (Dark brown to dark gray f. SAND, little silt, f.-m. gravel, trace coal slag).	5	2		1.6	0	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-30

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		1.4	0	
1	Fill (Black f. SAND, little silt, trace coal, slag, wood, and f. gravel).	1					
2		2					
3		3					
4		4					
5	Fill (Dark brown f.-m. SAND, little silt, trace coal slag from 5'-7').	5	2		2.9	0	
6		6					
7	Fill (Black f.-c. SAND, trace coal, slag, wood, and ceramic from 7'-10').	7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-31

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		1.7	0	
1	Fill (Black to Brown f. SAND, some silt, trace m-c sand, f-m gravel and concrete fragments).	1					
2		2					
3		3					
4		4					
5	Fill (Black f. SAND, trace coal and slag, c sand).	5	2		1.5	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-32

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.8	0	
1	Fill (Dark Brown to Black f-m SAND, trace vc sand,slag and brick fragments.)	1					
2		2					
3		3					
4		4					
5	Fill (Dark Brown to Black f-c. SAND, some angular f. gravel, little silt, slag, glass fragments).	5	2		2.5	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-33

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.3	0	
	Fill (Black vc SAND).	1					
1		2					
2		3					
3		4					
4		5					
5	Fill As above, (Brown f. SAND, little silt, trace brick, 6-10 Fill (Black f-c SAND some smem gravel and coal fragments, few wood fragments).		2		2.0	0.8	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-34

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.6	0.0 - 7.3	
1	Fill (Black f SAND, some silt, trace clay. wood fragments).	1					
2		2					
3		3					
4		4					
5	Fill (Black f SAND, little silt, trace f.-c. gravel, trace concrete fragments).	5	2		2.7	0.0 - 3.2	
6	8'-10' olive green/brown f. SAND, some SILT and CLAY, trace gravel).	6					
7		7					Collected soil sample SB-34 from 7'-7.5' on 1-13-12
8		8					
9		9					An MS and MSD soil sample was collected from the same interval.
10	Fill (Black f. SAND, trace c. sand and silt. Brown meadow-mat organic rich	10	3		2.8	0.0 - 4.8	
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-35

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.4	0	
1	Fill (Black f SAND, trace slag and coal fragments, angular gravel).	1					
2		2					
3		3					
4		4					
5	Fill (Black f SAND, Brown to gray silt, little clay).	5	2		4.1	0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-36

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.7	0 - 4	
1	Fill (Black to brown f SAND, trace silt).	1					
2	Black FILL (Black m Sand)	2					
3		3					
4		4					
5		5	2		2.4	0	
5	Fill (Black/olive gray f SAND, some silt, trace clay).	6					
6		7					
7		8					
8		9					
9		10					
10	End of Borehole	11					
11		12					
12		13					
13		14					
14		15					
15							

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-37

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0	1		2.7	0 - 1	
	Concrete Pavement						
1	Fill (brown to Black f SAND, some silt, little c-f gravel, trace brick.)	1					
2		2					
3		3					
4		4					
5		5	2		2.9	0 - 2.9	
6	Fill (Tan - Yellow Silt Some f. Sand, trace gravel).	6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-11-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-38

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		1.1	0.0	
1	Fill (Black to Brown f SAND, some silt, trace f-c gravel, trace slag.)	1					
2		2					
3		3					
4		4					
5	Fill (Black to Dark Brown f-m SAND, coal slag, little silt, trace f. gravel).	5	2		3.7	0 - 0.7	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-39

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.5	0.0	
1	Fill (Black to Brown f-m SAND, little silt, trace f-c gravel).	1					
2		2					
3		3					
4		4					
5	Fill (Brown SILT, some f-m sand, Tr. c sand, trace f-c gravel).	5	2		3.0	0 - 0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-40

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

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SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3.0	0.0 - 7.6	
1	Fill (Dk Brown f-m SAND, little silt, some f-c gravel), trace brick fragments).	1					
2		2					
3		3					
4		4					
5	Fill (Olive Gray to Brown f. SAND, some m-f sand, Tr. c sand, trace gravel). Wet 8-10'.	5	2		2.8	0 - 0.7	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-41

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		3.4	0.0 - 7.6	
1	Fill (Brown m SAND, some vf-c gravel), Fill Olive Gray Silt and f Sand.	1					
5	Fill (Dark Gray to Brown SILT some m-f sand, trace f. gravel).Olive Gray Silt, Some f. sand	5	2		4.0	0 - 0.7	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-42

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		3.4	0.0 - 0.2	
1	Fill (Brown - Olive Gray f SAND, some silt, trace f gravel.	1					
5	Fill (Brown to Olive Gray SILT some f sand, trace c. gravel).	5	2		4.0	0.0 - 0.2	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-43

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3.2	0.0 - 0.2	
1	Fill (Black - f SAND, some m - c gravel. Bropwn f SAND some Silt, fragments of brick	1					
5	Fill (Brown clay some f sand), Black c-f SAND tr. gravel	5	2		3.4	0.0 - 0.2	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-44

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		2.1	0.0 - 0.2	
1	Fill (Brown to Black - f SAND, little to some silt, brick fragments	1					
5	Fill (Brown and black f sand), Black f SAND (possible coal tar) tr. gravel and brick and glass	5	2		3.3	0.0 - 13	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-45

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		1.4	0.0 - 1.4	
1	Fill (Brown f - m SAND, little silt, tr brick fragments and gravel	1					
2		2					
3		3					
4		4					
5	Fill (Brown sand), Black f SAND (solid coal tar) tr. gravel, brick and glass. Brown f Sand some silt, little clay	5	2		2.7	0.0 - 0.1	
6		6					
7		7					Collected soil sample containing coal tar from 7'-7.5' below grade on 1-16-12.
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-46

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		3.4	0.0 - 1.2	
1	Fill (Brown to Black f SAND, some silt, little clay, tr. c-f brick fragments.	1					
2		2					
3		3					
4		4					
5	Fill (Brown to Black f SAND, some silt, little clay, Some f Sand some silt, little clay, trace f-m gravel.	5	2		4.5	0.0 - 2.0	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-12-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-47

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3.4	0.0 - 7.3	
1	Fill (Black f SAND). Some silt, trace clay. wood fragments.	1					
2		2					
3		3					
4		4					
5	Fill (Black f SAND, little silt, trace f-c gravel trace concrete fragments, 8-10 olive green/brown color f. SAND some silt and clay tr. gravel	5	2		3.2	0.0 - 3.2	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-48

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3.0	0.0 - 1.8	
1	Fill (Brown C SAND). Some silt, little coal ash, trace f. gravel and clay.	1					
2		2					
3		3					
4		4					
5	Fill (Olive green f. SAND overlying Black f-m SAND, little silt, trace f-c gravel trace concrete fragments, 6-10 olive green/brown color f. SAND some silt and little clay.	5	2		2.6	0.0 - 0.9	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-49

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
0	Concrete Pavement	0	1		3.1	0.0 - 3.0	
1	Fill Brown f SAND, little silt, trace clay trace ash and ceramic fragments	1					
5	Fill Olive green SILT, Trace gravel overlying Olive gray/brown f. SAND, some m-f gravel, trace c. sand	5	2		3.0	0.0 - 0.1	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-51

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3	0.0	
1	0.8'-2' Fill (Black to brown f. SAND, some f.-c. Gravel, little silt).	1					
2	2'-3' Fill (Brown f. SAND, little silt, trace concrete).	2					
3	3'-5' Fill (Tan c. SAND, little f. gravel from 3' to 3.2', followed by dark brown f. SAND, little silt, trace f. gravel crushed, c. sand, brick).	3					
4		4					
5	5'-9' Fill (Brown f. SAND, some m.-c. Sand, little silt, f.-m. gravel).	5	2		2.3	0.0	
6		6					
7	9'-10' Fill (Black f.-m. SAND, trace concrete, followed by dark brown CLAY, some Silt).	7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-52

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface	0					
	Concrete Pavement		1		3.1	0.5 ppm at 1'-1.2', 0ppm	Collected soil sample SB-52 from 1'-1.5'.
1	1'-1.2' Fill (Black m.-f. SAND, some Silt, little c.sand, trace f. gravel).	1					
2	1.2'-2' Fill (Gray c.-f. angular GRAVEL).	2					
3	2'-5' Fill (Brown f. SAND, little silt, trace m. sand, with tan-gray v.c.-f. Sand lens from 3.7' to 4', and crushed c. gravel from	3					
4		4					
5	4.5' to 5').	5	2		2.6	0.0	
	5'-9' Fill (Brown f. SAND, little silt, f.-m. gravel, trace c. sand, followed by dark brown CLAY, some Silt from 9.8'-10').						
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-53

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.4	0	
1	Fill (Brown to dark brown f. SAND, little Silt, trace coal slag (1.5'), brick, c. sand, v.c.-f. sand lens at 1.7'-2').	1					
5	5'-9' Fill (Brown f. SAND, little silt, trace c. sand, c.-f. gravel, white stone at 9'-9.2', brick at 9.5'-9.7').	5	2		2.1	0	
10	End of Borehole	10					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-13-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-54

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.6	0.1	
1	Fill (Brown m.-f. SAND, little silt and c.-f. gravel, c. sand lens at 4', pieces of brick from 4.4'-5').	1					
2		2					
3		3					
4		4					
5	Fill (Brown f.-m SAND, little c. sand and c.-f. gravel, brown CLAY, some Silt, little f. sand from 9.7'-10').	5	2		1.6	0.1	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-16-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-55

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.6	0	
1	0.5'-2' Fill (Black c.-m. SAND, some gray c.-f. gravel, pieces of ribbon).	1					
2	2'-5' Fill (Brown m.-f. SAND, some f. Gravel).	2					
3		3					
4		4					
5	5'-8' Fill (Dark brown m.-f. SAND, little f. gravel, pieces of brick at 7').	5	2		2	NA	Collected soil sample at 7'-7.5'.
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-56

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.8	NA	
1	Fill (Brown m.-f. SAND, some Silt, little f. gravel, brick at 2.5'-2.75').	1					
2		2					
3		3					
4		4					
5	Fill (Brown m.-f. SAND, some c.-f. Sand, pieces of concrete from 6' through 7.5', Black c.-m. SAND, little f. gravel, lens of bentonite fom 8.5'-8.75').	5	2		4	NA	Collected soil sample at 7'-7.5'.
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-57

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.8	19.5 at 2.5'	
1	Fill (Brown m.-f. SAND, some Silt, little f. gravel, brick at 2.5'-2.75').	1					
2		2					
3		3					
4		4					
5	Fill (Brown m.-f. SAND, some Silt, little f. gravel. Lens of hard material at 6.75'-7').	5	2		2	NA	
6		6					
7		7					
8		8					
9		9					
10	Clay, some Silt. Black m. SAND, some Silt from 14'-14.5'. Brown m.-c. SAND from 14.5'-15'.	10	3		5	NA	
11		11					
12		12					
13		13					
14		14					
15	End of Borehole	15					
16		16					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-58

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.9	0	
1	1'-2' Fill (Dark brown to brown f. SAND and c.-f. GRAVEL, little silt, trace c. sand sand).	1					
2	2'-5' Fill (Brown f. SAND, little m. sand, trace c. gravel at 3.5'-4, lens of c.-f. sand at 4.6'-4.8').	2					
3		3					
4		4					
5	5'-8' Fill (Black to dark brown c.-f. SAND, some m.-f. Gravel, pieces of brick, glass, coal, little silt).	5	2		3	0.2 at 5'-8', 0	Collected soil sample at 7'-7.5'.
6		6					
7	8'-10' Fill (Brown to gray CLAY, some Silt, trace f. sand).	7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-16-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-59

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3	NA	
1	0.5'-2.5' Fill (Black m.-f. SAND, coal, slag, f. gravel)	1					
2	2.5'-5' Fill (Brown m.-f. SAND, some f. gravel, coal).	2					
3		3					
4		4					
5	Fill (Brown m.-f. SAND, some Silt, pieces of coal).	5	2		2	NA	
6	6.5'-7' Fill (Clay, trace silt).	6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-60

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		3	NA	
1	0.25'-0.75' Fill (Orange-Brown SILT, large stone). 0.75'-5' Fill (Brown m. SAND, some f. gravel, black m.-f. SAND from 4.5'-5').	1					
2		2					
3		3					
4		4					
5	Fill (Brown m.-f. SAND, pieces of brick and m.-f. gravel).	5	2		2.75	NA	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

Borehole Number: SB-61

Geologist: Tom Cumello
Project No: 97390500
Project: Food Center Drive
Client: Mathews Neilsen
Site Location: Bronx, NY

Dewberry

600 Parsippany Road
Suite 301
Parsippany, NJ 07054-3715

SUBSURFACE PROFILE		SAMPLE PROFILE					
Depth	Description	Depth	Number	Type	Recovery (ft.)	PID (ppm)	Comments
0	Ground Surface						
0	Concrete Pavement	0	1		2.25	NA	
1	0.25'-0.5' Fill (Brown c. Gravel, pieces of glass). 0.5'-5' Fill (Brown m. SAND, some Silt, pieces of coal and red brick from 1'-1.5').	1					
2		2					
3		3					
4		4					
5	5'-7' Fill (Brown CLAY and m.-c. SAND, some Silt, some m.-f. Gravel, pieces of brick, coal (7'-7.5').	5	2		2.5	NA	
6		6					
7		7					
8		8					
9		9					
10	End of Borehole	10					
11		11					
12		12					
13		13					
14		14					
15		15					

Drilled By: Zebra Drilling Company, Inc.
Drill Method: Direct Push
Drill Date: 01-17-12
Hole Size: 2 in.

Coordinates: NA
Well Permit No.:
Sheet: 1 of 1
Rig Type: Geoprobe 6610

APPENDIX B

Laboratory Data Deliverables
(Electronic)

Attachment D

HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-01
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	8"	Approximately 12" asphalt & concrete 0-8" FILL - black very fine sand, trace slag, trace coarse sand to fine gravel	Concrete/Asphalt No odor, no evidence of purifier waste or coal tar. Low recovery in core.	Dry
5	SB-01	(6.5' - 7')	0.6	--	40"	0-34" FILL- black very fine to coarse sand, trace coal, trace slag, trace glass 34-40" FILL - brown fine sand, trace medium to coarse sand	No odor, no evidence of purifier waste or coal tar, @6" a 1" concrete lense.	Wet approximately 9' bgs
10						EOB 10' bgs Dewberry collected sample from 6.5 to 7' bgs		
15								
20								
25								
30								
35								
40								
45								
50								

HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-02
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	36"	0-6" Asphalt, concrete/road base 6-7" FILL - white/yellow fine to coarse sand 7-36" FILL - black to brown very fine to medium sand, trace slag, trace coal, trace medium to coarse gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	36"	0-36" FILL - black to brown fine to coarse sand, trace coal, trace fine to medium gravel, trace ceramics, trace brick	No odor, no evidence of purifier waste or coal tar.	Wet approximately 9' bgs
10						EOB 10' bgs		
15								
20								
25								
30								
35								
40								
45								
50								

HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-03
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	40"	0-10" Asphalt & Roadbase 10-40" FILL - Black to brown very fine to medium sand, trace slag, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	46"	0-42" FILL - black to brown very fine to medium sand, trace fine gravel, trace slag, trace coal, trace ceramic (toward bottom of core) 42-46" FILL - dark brown fine sand, little silt	No odor, no evidence of purifier waste or coal tar, @~12" mechanically fractured quartize @~14" 0.5" lense of silt	Wet @ approx 9' bgs
10						EOB 10' bgs		
15								
20								
25								
30								
35								
40								
45								
50								

HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-04
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	40" 30" in core	0-10" Asphalt & concrete / road base 10-15" FILL - pulverized concrete 15-40" FILL - black fine to coarse sand, trace slag (the size of coarse sand), trace fine to medium gravel	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	perched water ~6" thick @1.5' bgs
5			ND to 0.1	--	26"	0-6" FILL - black fine to coarse sand, trace slag (the size of coarse sand), trace fine to medium gravel 6-8" FILL - white pulverized concrete with (fine gravel size) pieces of concrete 8-10" FILL - black (fine sand size) coal 10-14" FILL - brown fine sand, trace medium to coarse sand	No odor, no evidence of purifier waste or coal tar	wet at approx 9.5'
10						14-26" FILL - black & brown fine to coarse sand, trace coal, trace slag, redbrown color toward bottom. EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-05
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	36	0-3" Asphalt 3-24" FILL - black/dark brown very fine to fine sand, trace slag, trace glass 24-36" FILL - black/dark brown very fine to fine sand, trace slag, trace glass, fractured gray cobbles	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5	SB-5	(7.5 - 8')	ND to 0.1	--	32	0-31" FILL - black to brown very fine to fine sand, trace fractured cobbles, trace wood at 18" (appears to be historic piling) 31-32" FILL - gray silty fine sand.	No odor, no evidence of purifier waste or coal tar, wood has odor/creosote like.	Wet @ approx 8'
10						EOB 10' bgs Dewberry collected sample at 7.5' to 8' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-06
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	26	0-6" FILL - gray pulverized concrete and asphalt 6-26" FILL - brown/ dark brown/ redbrown very fine to fine sand, trace wood, trace shell fragments, trace brick (wood does not appear to be purifier waste)	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5			ND to 0.1	--	60	0-6" FILL - brown/ dark brown/ redbrown very fine to fine sand, trace wood, trace shell fragments, trace brick 6-60" Olive gray SILT and very fine SAND, little to some clay, more fine grain toward bottom	No odor, no evidence of purifier waste or coal tar, wood has odor/creosote like.	Wet @ approx 8'
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-07
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	32	0-3" gray pulverized concrete, trace gravel 3-13" FILL - dark brown/ black fine to medium sand, little to trace silt, trace glass, trace brick 13-32 FILL - dark brown very fine to medium sand, trace gravel, trace brick	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5			ND to 0.1	--	45	0-3" FILL - dark brown very fine to medium sand, trace gravel, trace brick 3-4" FILL - white/gray very fine to fine sand/pulverized rock fragments 4-45" FILL - brown very fine to fine sand, trace fine gravel (38" to 45"), trace silt	No odor, no evidence of purifier waste or coal tar.	Wet @ approx 8'
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-08
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	26	0-4" FILL - gray very fine to fine sand and concrete fragments 4-12" FILL - dark brown very fine to fine sand, little silt, trace mica schist fragments 12-26" FILL - brown very fine to fine sand, little silt	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5			ND to 0.1	--	46	0-46" FILL - brown very fine to fine sand, little silt, rock fragments (mechanically fragmented) @ 9", 15", 24", 36", each approx 2" thick. Less fine toward bottom, trace medium to coarse sand.	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-09
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	41	0-4" FILL - gray silty fine sand and anglular concrete rock fragments 4-41" FILL - brown very fine to fine sand, little silt, trace mica schist @24" less silty toward bottom of core	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5			ND to 0.1	--	38	0-5" FILL - brown very fine to fine sand, little silt 5-7" FILL - light gray fine to medium sand, trace fine angular gravel, trace coarse sand, 7-38" FILL - brown fine to medium sand, trace angular rock fragments, trace fine to coarse gravel, trace silt	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-10
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	16	0-4" FILL - gray/white fine to mediun sand, trace angular gravel/pulverized concrete 4-16" FILL - black/ dark brown very fine to fine sandy fill, with white medium sand, blue/green staining around grains, trace fine gravel	No odor, blue/green staining, no woodchips or coal tar present.	Dry
5	SB-10	(5.5 - 6')	ND to 0.1	--	30	0-16" FILL - black/ dark brown very fine to fine sand, with white medium sand, blue/green staining around grains, trace fine gravel 16-30" FILL - brown very fine to medium sand, trace medium to coarse subangular gravel	No odor, blue/green staining present, no woodchips or coal tar present. @28" - pulverized quartite	Dry
10						EOB 10' bgs Dewberry collected sample from 5.5 to 6' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-11
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/9/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	34	0-6" gray/white very fine to fine sand, angular gravel, concrete 6-34" FILL - brown fine to medium sand, trace angular gravel	No odor, no evidence of purifier waste or coal tar. 10" of road cored using chisel bit prior to insertion of macro core sampler.	Dry
5			ND to 0.1	--	48	0-48" FILL - brown fine to medium sand, trace angular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-12
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	35	0-10 Asphalt removed using chisel bit 10-29" FILL - brown/ dark brown fine to medium sand, trace coal, trace coarse sand, trave fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	31	0-31" FILL - brown medium to fine sand, trace angular fine gravel, mechanically fractured rock/cobble, trace coarse sand.	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-13
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	30	0-10" Asphalt & Concrete 10-30" FILL - brown fine to medium sand, trace coarse sand, trace fine angular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5	SB-13	(5.5 to 6')	ND	--	36	0-36" FILL - brown fine to medium sand, trace coarse sand, trace fine angular gravel/subangular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs Dewberry sampled SB-13 from 5.5 to 6' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-14
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	22	0-8" Asphalt, concrete (road & base) 8-12" FILL - dark brown fine to medium sand, trace angular gravel 12-22" FILL - brown medium to fine sand, trace coarse sand, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	32	0-19" FILL - brown medium to fine sand, trace coarse sand, trace fine gravel 19-32" FILL - brown medium to fine sand, little fine to medium angular gravel of varying composition, trace brick	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-15
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			1.0	--	34	0-10" Asphalt, concrete (road & base) 10-24" FILL - black/ dark gray/ brown silty fine sand, trace coarse sand 24-34" FILL - dark brown fine sand, some silt, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	17	0-17" FILL - dark brown fine sand, some silt, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-16
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	27	0-6" Asphalt, concrete (road & base) 6-27" FILL - dark brown fine to medium brown sand, trace coarse sand, trace fine gravel, trace to little silt	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	36	0-36" FILL - brown/ dark brown fine to medium sand, trace to little silt, trace coarse to fine angular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-17
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	40	0-8" Asphalt, concrete (road & base) 8-12" FILL - black fine to very fine sand, trace coarse sand to fine gravel 12-40" FILL - brown fine sand, trace to little silt, trace coarse to medium sand, trace fine angular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	48	0-48" FILL - brown fine sand, trace to little silt, trace fine to coarse gravel, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-18
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			0.5	--	42	0-6" Asphalt, concrete (road & base) 6-12" FILL - black fine sand, trace fine gravel, trace silt 12-20" FILL - brown fine silty sand, trace coarse sand to fine gravel 20-23" FILL - pulverized rock fragments 23-25" FILL - black fine sand, trace silt	No odor, no evidence of purifier waste or coal tar.	Dry
5	SB-18	(5.5 - 6')	ND to 0.1	--	42	25-42" FILL - brown fine to medium sand, trace to little silt, trace coarse sand, trace fine gravel, trace med. sand 0-42" FILL - brown fine to medium sand, trace to little silt, trace coarse sand, trace fine gravel, trace medium sand.	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs Dewberry collected sample SB-18 (5.5-6')		
15						Temporary well installed on 1/16/12 0-10' same as SB-18 10-15' 60in recovery, same as 5-10ft 15-20' 32in recovery, same as last screen set 4-19' bgs. Riser to +1 above ground		
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ENGINEERS FIELD BORING LOG

BORING ID SB-19
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	32	0-7" Asphalt & pulverized concrete (road & base) 7-14" FILL - dark brown fine sand, trace to little silt, trace coarse sand 14-17" FILL - black fine sand, trace to little silt, trace brick, trace fine gravel 17-32" FILL - brown fine to medium sand, little silt, trace coarse sand, fine angular gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	42	0-20" FILL - dark brown silty fine sand 20-42" FILL - brown fine sand, trace coarse sand, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Perched water 5-6', dry after
10						EOB 7' bgs, Refusal @ 7' NOTE: SB-19 oringinally moved in approx 4' toward curb, refusal at this location, moved again 4' closer toward SB-18, refusal at 7'		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-20
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	29	0-8" Asphalt & pulverized concrete (road & base) 8-24" FILL - black/ dark brown fine sandy fill, trace fine gravel, trace coarse sand, trace glass, trace brick, trace coal, trace silt 24-29" FILL - brown fine sand, trace to little silt, trace brick, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	19	0-2" FILL - pulverized brick 2-8" FILL - black/ dark brown fine sandy fill, trace to little silt, trace coarse sand, trace fine gravel 8-19" brown silty fine sand	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-21
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	32	0-8" Asphalt, concrete (road & base) 8-32" FILL - black/dark gray fine to medium sand, trace coarse sand, trace fine gravel, coal @ 9-10", trace brick25-29" FILL - slag & fine black sandy fill	No odor, no evidence of purifier waste or coal tar.	Dry
5	SB-21	(4-4.5')	ND to 0.1	--	10	0-2" FILL - pulverized brick 2-10" FILL - black to brown fine to medium sand , trace brick, trace glass, trace ceramic, trace coal	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs Dewberry collected sample SB-21 (4-4.5')		
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ENGINEERS FIELD BORING LOG

BORING ID SB-22
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	21	0-4" Pulverized concrete (sidewalk) 4-21" FILL - brown/black fine sand, little to trace silt, trace slag, trace fine gravel, trace brick fragments / pulverized brick @ 14-16"	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	12	0-12" FILL - brown fine sand, trace slag, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-23
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	24	0-6" Angular gravel, trace to little sand (sidewalk) 6-24" FILL - dark brown/ black fine sand, little silt, trace brick, trace coarse sand, trace fine gravel, trace slag	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	11	0-11" FILL - redbrown fine sand, trace silt, trace brick, trace ceramics	No odor, no evidence of purifier waste or coal tar.	Moist
10						EOB 10' bgs Temporary Well installed @ SB-23 on 1/16/12 0-5' same as SB-23 boring with lumber at bottom 5-10' 0-4" brown fine sand, some silt 4-8" brick 8-12" brown fine sand, some silt @ 18" coal frag. Piling or tie in shoe		
15						10-15' olive gray silty clay, trace coarse sand, trace fine sand, trace shell fragments (4.3' recovery)		
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ENGINEERS FIELD BORING LOG

BORING ID SB-24
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	24	0-6" Pulverized concrete (sidewalk) 6-18" FILL - brown fine sand, little to trace silt, trace medium to coarse sand, trace fine gravel 18-24" FILL - black fine sand, little to trace silt, trace coarse sand, trace fine to coarse gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	24	0-11" FILL - black fine sand, little to trace silt, trace coarse sand, trace fine to coarse gravel 11-13" FILL - brick 13-21" FILL - black/brown fine to very fine sand, trace fine gravel, trace to little silt 21-24" olive gray/ black silty clay	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-25
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/10/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	31	0-6" Pulverized concrete (sidewalk) 6-19" FILL - brown/ dark brown fine sand, little to trace silt, trace brick, trace fine gravel, trace slag 19-28"FILL - black fine sandy fill, trace silt, trace brick, trace slag, trace fine gravel 28-31" FILL - brown very fine to fine sand, trace to little silt, trace brick, trace fine gravel, trace slag	No odor, no evidence of purifier waste or coal tar.	Dry, Moist 12-19"
5			ND to 0.1	--	16	0-16" FILL - brown very fine to fine sand, trace to little silt, trace brick, trace fine gravel, trace slag	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-26
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	38	0-8" Asphalt & pulverized concrete 8-32" FILL - black fine to very fine sand, trace coal, trace fine gravel, trace coarse sand 32-38" FILL - pulverized degraded red stone / brick	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	14	0-3" FILL - pulverized degraded red stone / brick 3-14" FILL - black fine to very fine sand, little coal fragments, trace brick, trace glass, trace degraded mortar/concrete, trace medium to coarse sand, trace fine gravel, trace wood fragments	No odor, no evidence of purifier waste or coal tar. Wood not typical of purifier waste.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-27
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	24	0-6" Asphalt, cored using chisel bit 6-9" FILL - dark brown/ black fine to medium sand, trace silt, trace coarse sand, trace fine gravel 9-24" FILL - brown/ dark brown fine to medium sand, trace coarse sand, trace fine gravel, trace brick	No odor, no evidence of purifier waste or coal tar.	Moist 12-24" Dry elsewhere
5			ND	--	12	0-12" FILL - brown/ dark brown fine to medium sand, trace coarse sand, trace fine gravel, trace glass, trace wood (piling), trace metal, trace coal	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-28
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project
BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push
DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	44	0-6" Pulverized concrete 6-7" FILL - black fine sand, little silt 7-19" FILL - brown fine sand, little silt, trace ceramic, trace coal 19-20" FILL - white pulverized rock / rock fragments 20-38" FILL - brown fine sand, little to some silt, trace fine gravel, trace medium sand	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	12	38-44" FILL - black/dark brown fine sand, some to little silt, trace coal, trace slag, trace fine to coarse gravel 0-10 FILL - dark brown/ black fine sand, little silt, trace slag, trace glass, trace wood fragments @ bottom of shoe	No odor, no evidence of purifier waste or coal tar. Wood not typical of purifier waste.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-29
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	26	0-8" Pulverized concrete 8-26" FILL - Dark brown to gray brown fine sand, trace medium to coarse sand, little to trace silt, trace fine gravel, trace brick	No odor, no evidence of purifier waste or coal tar.	Dry
5	SB-29	(5.5 - 6')	ND	--	20	0-20" FILL - dark brown to gray brown fine sand, trace medium to coarse sand, little to trace silt, trace fine gravel, trace brick, trace coal, trace glass, trace ceramic	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs Dewberry sampled SB-29 from 5.5' to 6' bgs. Zebra advanced second boring to collect volume for duplicate sample. Lithology same as original boring.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-30
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	15	0-5" Pulverized concrete 5-15" FILL - black fine to very fine sandy fill, trace coal, trace brick, trace slag, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	30	0-23" FILL - dark brown very fine to medium sandy fill, trace coal, trace slag 23-30" FILL - black fine to coarse sand, trace coal, trace ceramic, trace glass, trace fragments of wood @ shoe	No odor, no evidence of purifier waste or coal tar. Wood not typical of purifier waste.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-31
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	20	0-2" FILL - black fine to medium sand, trace coarse sand, trace silt 2-20" FILL - brown/orange brown fine to medium sand, trace coarse sand, trace fine gravel, trace silt, trace coal	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	18	0-4" FILL- black fine to very fine sand, trace coal, trace slag, trace coarse sand 4-6" FILL - degraded / pulverized mica schist 6-11" FILL - red brown/ orange brown fine to very fine sand, little to trace silt, trace coarse sand, trace fine gravel 11-18" FILL - black fine to very fine sand, trace coal, brick, coarse sand, fine gravel, slag, wood at shoe.	No odor, no evidence of purifier waste or coal tar. Wood not indicative of purifier waste - possible old piling or debris.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-32
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	33	0-7" Pulverized concrete and fine gravel 7-33" FILL - dark brown to black very fine to medium sand, trace coarse sand, trace fine gravel, trace silt, trace slag, trace coal, trace brick	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	16	0-7" FILL - dark brown to black very fine to medium sand, trace coarse sand, trace fine gravel, trace silt, trace slag, trace coal, trace brick 7-16" FILL - dark brown/ black fine to coarse sand, trace to little silt, little slag, trace fine gravel, trace ceramic, trace glass	No odor, no evidence of purifier waste or coal tar.	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-33
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project
BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push
DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0	SB-33	(4.5 - 5)	ND	--	27	0-8" Angular gravel, pulverized concrete 8-27" FILL - black fine grain coal/ash, trace to little slag	No odor	Dry
5			ND to 0.8	--	24	0-7" FILL - black fine grain coal/ash/sand, trace to little slag 7-11" FILL- brown fine to very fine sand, little silt, trace brick, trace coarse sand, trace fine gravel, trace wood 11-24" FILL - black fine to coarse sand, trace fine gravel, trace coal, trace wood fragments near 22-24"	7-11" slight hydrocarbon like odor, no blue/green staining, no visible coal tar 11-24" wood chips have creosote like odor, possible old rail tie	Wet at approx 7.5' bgs
10			ND	--	28	0-12" Black fine to very fine SAND, little silt, trace coarse sand, trace fine gravel, trace mica, trace clay 12-28" Gray/brown fine to very fine SAND, little silt, trace coarse sand, trace fine gravel, trace mica, trace clay	No odor, no evidence of fill.	Wet
15						EOB 15' bgs Dewberry collected sample SB-33 (4.5 - 5')		
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ENGINEERS FIELD BORING LOG

BORING ID SB-34
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	32	0-8" Pulverized concrete & angular gravel 8-13" FILL - dark brown/black fine sand, trace fine gravel, trace brick, trace coarse gravel 13-32" FILL- black fine to medium sand size coal and ash, trace to little slag, trace silt	Sidewalk Slight odor	Dry
5			ND	--	32	0-14" FILL - black fine to medium sand/coal/ash, trace to little slag, trace silt 14-32" FILL - black silty woodchips (purifier waste), trace medium to fine sand	Strong purifier waste like odor	Wet at approx 7.5' bgs
10			ND	--	32	0-8" FILL - black silty woodchips (purifier waste), trace medium to fine sand 8-10" FILL - black/dark brown medium to fine sand, trace silt 10-32" PEAT - brown organic rich silt (and organics)		Wet
15						EOB 15' bgs Zebra backfilled boring with bentonite to top of organic layer.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-35
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project
BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push
DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	26	0-7" Angular gravel, pulverized concrete 7-23" FILL - black fine to very fine sand size coal/ash and sand, trace to little slag (coarse sand to fine gravel size), trace coal 23-26" FILL - angular fine gravel, slag and fine black sand size fill	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	49	0-3" FILL - olive/brown fine to very fine silty sand, trace clay 3-4" FILL - fine to very fine sand size coal/ash and sand 4-30" FILL - brown/ olive gray fine to very fine sandy silt, trace coarse sand, trace slag, trace clay 30-49" olive gray clayey SILT, some fine sand, trace fine gravel, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Wet
10						EOB 10' bgs Zebra backfilled with bentonite to top of clayey silt prior to backfill with cuttings.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-36
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 4.0 @ purifier waste	--	34	0-10" FILL - black/brown fine to very fine sand, some silt, trace clay, trace slag 10-16" FILL - white very fine dust, rock fragments, concrete 16-24" FILL - black/brown fine to very fine sand, some silt, trace clay, trace slag 24-28" FILL - black silty woodchips (purifier waste), slight blue/green staining, trace slag 28-34" FILL - black/olive gray very fine sandy silt, some to little	0-24" No odor, no evidence of purifier waste 24-28" Strong burnt odor	Dry
5			ND	--	17	0-17" olive gray SILT and very fine SAND, little clay	No odor, no evidence of purifier waste or coal tar.	Wet
10						EOB 10' bgs Zebra backfilled with bentonite to top of clayey silt prior to backfill with cuttings.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-37
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/11/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0	SB-37	(2 - 2.5')	ND to 1.0	--	32	0-7" Angular gravel and pulverized concrete 7-9" FILL - brown very fine to fine sand, some silt, trace fine gravel 9-12" FILL - white/gray very fine silty pulverized concrete and coarse sand to coarse gravel size concrete fragments 12-22" FILL - black fine to very fine sandy fill material, some silt, trace coarse sand, fine gravel, brick, slag	0-12" No evidence of purifier waste 12-24" burnt odor, no woodchips or staining	Dry
5			37.4 near coal tar	--	34	22-32" FILL - tan/yellowbrown fine to very fine sand, trace organic matter, trace fine to coarse gravel 0-8" FILL - olive brown silty very fine sand 8-13" FILL - olive brown silty very fine sand, some organics 13-21" FILL - olive gray silt, some clay, trace coarse sand 21-24" FILL - coal tar and same as 13-21" 24-34" FILL - red/orng. brown fine sand, some silt, trace clay	(5-10') 21-24" strong coal tar like odor 24-34, slight coal tar like odor toward top of interval, no evidence of purifier waste or coal tar at bottom of core.	Wet, sheen near coal tar
10						EOB 10' bgs Dewberry sampled SB-37 (2-2.5') bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-38
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	12	0-3" Pulverized concrete, angular gravel 3-12" FILL - brown/black/blue/green fine sand, and angular gravel/ slag	Blue/green staining, no woodchips	Dry
5			0.1 to 0.7	--	45	0-16" FILL - gray brown very fine to fine sand, some silt, trace angular gravel, blue/green staining 16-45" FILL - brown silty fine sand trace angular gravel (fine to coarse), trace coarse sand	Slight purifier waste like odor in area with staining, no woodchips	Wet, sheen near coal tar
10						EOB 10' bgs Zebra backfilled with bentonite to top of silty interval prior to backfill with cuttings.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-39
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0	SB-39	(4 - 4.5')	ND to 2.7	--	30	0-8" FILL - brown fine to medium sand, little to some silt, trace coarse sand, fine to coarse gravel 8-26" FILL - black/ dark brown fine to medium sand 26-30" FILL - brown fine sand and silt, trace coarse sand, trace fine gravel	Slight petroleum like odor	Wet approx 2.5' bgs
5			ND to 0.1	--	36	0-8" FILL - brown fine sand and silt, trace coarse sand, trace fine gravel 8-36" FILL - brown fine sand and silt, trace clay	No odor, no evidence of purifier waste or coal tar.	Wet
10						EOB 10' bgs Dewberry sampled SB-39 (4-4.5')		
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ENGINEERS FIELD BORING LOG

BORING ID SB-40
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0	SB-40	(4 - 4.5')	1.0 to 2.3 76ppm at coal tar odor	--	33	0-6" Angular gravel and pulverized concrete 6-7" FILL - black fine to medium sand, trace coarse sand, fine gravel 7-11" FILL - fractured brick, little black fine sand 11-22" FILL - black/dark brown fine sand, some to little silt, trace slag, trace concrete 22-33" FILL - brown/dark gray fine sand and silt, trace c. sand	Fill, slight odor Strong coal tar like odor @ 22", no visible coal tar	Wet approx 2.5' bgs
5			ND to 1.3	--	33	0-12" FILL - gray brown fine sand, little silt, trace coarse sand, trace fine gravel 12-20" FILL - brown/gray brown fine to medium sand, trace coarse sand, trace silt, trace degraded mica schist 20-33" FILL - brown fine sand and to some silt, trace medium sand, lense of fine to medium sand trace clay at 25"	No odor, no evidence of purifier waste or coal tar.	Wet
10						EOB 10' bgs Dewberry sampled SB-40 (4-4.5')		
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ENGINEERS FIELD BORING LOG

BORING ID SB-41
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			1.6 to 3.2	--	37	0-12" White & beige fine sand, some silt, little angular gravel 12-16" FILL - woodden rail tie 16-18" FILL - coarse gravel, some to little fine sand 18-20" FILL - white/ gray fine to medium sand, little silt 20-37" FILL - dark gray/brown fine sand, some silt, trace fine gravel, trace coarse sand	Concrete sidewalk Boring adjacent to railway.	Dry
5			ND	--	45	0-45" FILL - olive gray/brown to brown silty fine sand, trace coarse sand, trace fine to coarse gravel, trace degraded mica schist	Slight petroleum like odor, no other evidence of purifier waste or coal tar	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-42
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.2	--	22	0-8" Angular fine gravel and pulverized concrete 8-16" FILL - brown/black fine sand, little silt, little fine to coarse gravel (angular to subangular) 16-22" FILL - olive gray/ brown fine sand, some silt, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.2	--	54	0-2" FILL- olive gray/brown fine sand, some silt, trace coarse sand 2-4" FILL- fractured quartzite 4-22" FILL - olive gray brown silty fine sand, trace coarse sand, fine to coarse gravel 22-54" FILL - brown fine sand and silt, trace coarse sand, trace fine to coarse gravel	No odor, no evidence of purifier waste or coal tar. @50" a 2" lense of degraded mica schist	Dry
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-43
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.2	--	38	0-8" Pulverized concrete and angular gravel 8-12" FILL - black fine to very fine sand, trace slag and coal 12-38" FILL - black/brown fine sand, little silt, trace fine to coarse gravel, trace slag, trace brick, trace coarse sand	Slight coal tar like odor, no evidence of woodchip purifier waste	Dry
5	SB-43	(7.5 - 8')	ND to 0.2 298 @ 15-17"	--	40	0-15" FILL - black/brown fine sand, little silt, trace fine to coarse gravel, trace slag, trace brick, trace coarse sand 17-15" FILL - black fine to coarse subangular to angular gravel, trace concrete 17-40" FILL - olive gray silty clay, trace fine gravel, coarse sand, trace coal @ 16"	from 15-17" hydrocarbon/ coal tar like odor, no visible coal tar PID 298ppm	Dry
10						EOB 10' bgs Dewberry sampled SB-43 (7.5 to 8')		
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ENGINEERS FIELD BORING LOG

BORING ID SB-44
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	26	0-6" Pulverized concrete and angular gravel 6-26" FILL - black and brown fine sand, little to some silt, trace coarse sand, trace fine angular gravel @ 18" 1" lense of fine to medium sand	Fill, no odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 8.5 13.5 @ approx 38"	--	39	0-19" FILL - black and brown fine sand, little to some silt, trace coarse sand, trace fine angular gravel 19-27" FILL - black fine sand, possible coal tar, trace slag, trace brick, some to little silt, trace coarse gravel 27-39" FILL - black fine sand, little silt, trace brick, trace glass, trace angular fine to coarse gravel, trace wood fragments	Slight coal tar like odor, some viscous pellets that may be coal tar mix with sand. Woodchips appear to be lumber debris.	Wet approx 7' bgs
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-45
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			0.4 to 5.3	--	22	0-7" Angular gravel & pulverized concrete 7-15" FILL - brown fine sand, some to little silt, trace angular fine grave, coarse sand, brick, coarse gravel 15-22" FILL - black fine to medium sand, trace brick, coarse sand, gravel	Slight coal tar like odor	Dry
5			1.4 to 255	--	36	0-8" FILL- dark brown/black fine to medium sand, trace coarse sand 8-20" FILL - pulverized rock and fine white silty sand 20-36" FILL - black to dark brown silty fine sand, trace coarse sand, fine gravel, brick, trace coal tar with sheen, trace slag	Strong coal tar like odor, sheen on soil last 6"	Wet at approx 9'
10			25 to 1.0	--	30	0-5" same as above (5 to 10' core 20-36") 5-12" FILL - olive brown/ gray fine sand, some to little silt, little medium sand 12-30" FILL - brown fine tomedium sand, some silt, trace clay, trace coarse gravel	slight unidentifiable petroleum/ hydrocarbon like odor.	Wet
15						EOB 15' bgs Zebra backfilled with bentonite to top of silty layer prior to backfill with cuttings.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-46
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/12/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			1.1	--	41	0-6" Angular gravel, pulverized concrete 6-12" FILL-dark brown fine sand, some silt, trace coarse sand, fine gravel 12-13" FILL - plywood fragments 13-41" FILL - black fine sand and silt, trace to little fine angular gravel, trace coarse sand, trace slag	Sidewalk No detectable odor slight petrol/hydrocarbon like odor coal tar like odor	Dry
5	SB-46	(7.5 - 8)	1.2 to 61	--	52	0-10" FILL- black fine sand and silt, trace to little fine angular gravel, trace coarse sand, trace slag 10-12" FILL - gray/ light brown silty sand, little angular fine gravel 12-30" FILL - black/dark brown silty fine sand, trace rounded to angular fine gravel, trace brick, trace coarse sand, trace slag, black 25-30"	Moderate coal tar like odor 25-30"	Dry
10						30-52" FILL - dark brown/ gray brown silty fine sand, trace fine sub to angular gravel, trace medium to coarse sand EOB 10' bgs Dewberry sampled SB-46 (7.5 - 8')	No visual evidence of coal tar or purifier waste.	
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ENGINEERS FIELD BORING LOG

BORING ID SB-47
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			1.3	--	40	0-5" Pulverized concrete 5-26" FILL - black fine sand, silt, trace fine to coarse gravel, trace coal, trace metal, trace coarse sand 26-28" FILL - wood rail tie or piling 28-40" FILL - black to brown fine sand and silt, trace fine gravel	No odor, no evidence of purifier waste or coal tar	Dry
5			7.8	--	40	0-6" FILL - black to brown fine sand, some silt, little slag 6-8" FILL - gray fine to silty sand, and angular gravel, concrete 8-12" same as 0-6" 12-26" FILL - brown/dark brown silty fine sand, trace fine gravel, trace clay, slag, coarse sand	No odor, no evidence of purifier waste or coal tar	Wet approx 7' bgs
10						26-32" gray, same as last 32-40" olive gray/brown fine sandy SILT, trace clay, trace coarse sand, trace fine gravel. EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-48
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 1.8	--	36	0-6" Pulverized concrete & angular gravel 6-13" FILL - dark brown fine sand, some silt trace angular, fine gravel, coarse sand 13-25" FILL - black/dark gray fine sand and silt, trace to little slag, trace fine gravel, trace coarse sand, trace clay 25-36" FILL - olive gray silty fine sand, trace fine angular gravel	Sidewalk slight coal tar like odor No odor, no evidence of purifier wast or coal tar.	Dry
5			ND	--	36	0-4" same as last 4-10" FILL - black/dark gray fine sand and silt, trace slag, trace fine angular gravel 10-31" FILL - olive gray/brown silty fine sand, trace clay, trace fine to coarse angular to subangular gravel 31-32" FILL - black fine sand, silt, trace to little slag 32-36" same as 10-31" interval	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-49
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			1.1 to 4.5	--	36	0-6" Pulverized concrete & angular gravel 6-24" FILL - dark brown/ black fine sand and silt, trace coarse sand, trace fine gravel, trace brick 24-32" FILL - white pulverized rock, coarse sand, fine sand, and silt 32-36" FILL - dark brown/ black fine sand and silt, trace fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			0.7 to 1.8	--	32	0-26" FILL - olive gray/brown silty fine sand, trace medium to coarse sand, trace fine gravel 26-32" FILL - black/dark brown medium to fine sand, trace to little slag, trace fine gravel, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-50
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE N/A

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0						SB-50 omitted due to concerns over underground utilities in vicinity of boring location.		
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ENGINEERS FIELD BORING LOG

BORING ID SB-51
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.2	--	36	0-8" Pulverized concrete, angular gravel 8-16" FILL - black fine sandy silt, trace to little fine angular gravel, coarse sand 16-22" FILL - brown silty fine sand 22-26" FILL- fine to coarse sand, trace silt 26-36" FILL - dark brown to black silty fine sand, trace fine gravel, trace concrete, trace glass, trace brick	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.2	--	30	0-20" FILL - dark brown to black silty fine sand, trace fine gravel, trace concrete, trace glass, trace brick 20-21" FILL - fine to coarse sand, trace silt 21-28" FILL - black and dark brown silty fine sand, trace to little coarse sand to fine gravel, trace black fiberous material, trace tan fiberous material 28-30" clayey black/gray silt.	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-52
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project
BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0	SB-52	(1.5 to 2')	ND to 0.5	--	37	0-8" Pulverized concrete & angular gravel 8-12" FILL - black fine sandy silt, trace coarse sand, fine gravel 12-20" FILL - gray angular fine to coarse gravel and fine sand 20-26" FILL - brown fine silty sand, trace medium to coarse sand, fine gravel 26-28" FILL - fine to coarse sand 28-34" FILL- brown/ dark brown fine sand and silt, trace fine to coarse gravel 34-37" FILL - tan angular - subangular fine gravel and fine sand/silt	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	24	0-6" FILL - tan angular - subangular fine gravel and fine sand/silt 6-8" FILL - light gray angular gravel and silt 8-20" FILL - brown silty fine sand, trace fine to coarse gravel, trace medium to coarse sand 20-24" FILL - olive gray/dark clayey silt	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs Dewberry sampled SB-52 (1.5 - 2') bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-53
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/13/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	30	0-8" FILL - fine angular gravel and fine silt 8-16" Fill- dark brown fine sand, some silt, trace fine to coarse gravel, trace slag 16-22" FILL - beige fine to coarse sand, trace to fine gravel 22-30" FILL - dark brown silty fine sand, trace fine to coarse gravel, trace concrete	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	24	0-5" FILL - dark brown fine sand and silt, trace coarse sand to fine gravel 5-13" FILL - same as above with little fine to coarse gravel 13-16" FILL - white pulverized stone/concrete 16-20" FILL - brick 20-24" FILL - dark brown to brown silty fine sand, fine to coarse gravel	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs		
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HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-54
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/16/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	31	0-5" Pulverized concrete/ angular gravel 5-10" FILL - brown fine sand, some silt, trace coarse sand, fine to coarse gravel 10-16" FILL - dark brown/ black fine sand, trace silt, fine to coarse gravel, trace coarse sand 16-20" FILL - dark brown fine sand, little to some silt, trace coarse sand, coarse rounded gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND to 0.1	--	20	20-23" FILL - fine to coarse sand, trace fine to coarse gravel 23-29" FILL - dark brown fine sand, some to little silt, trace fine gravel, coarse sand 29-31" FILL - brick 0-6" FILL - dark brown fine sand, some to little silt, trace coarse sand, mica schist fragments	No odor, no evidence of purifier waste or coal tar.	Wet approx 8' bgs
10						6-13" FILL - pulverized rock, trace silt, fine sand 13-20" FILL - brown silty fine sand, some to little clay, trace fine gravel, grading to gray silty clay. EOB 10' bgs		
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ENGINEERS FIELD BORING LOG

BORING ID SB-55
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	32	0-7" Concrete & angular gravel 7-11" FILL - black fine sand, some to little silt, trace fine gravel, trace coarse sand, trace coal, slag 11-12" FILL - wood fragments (lumber) 12-18" FILL - black fine sand, some to little silt, trace coal, trace slag, trace fine to coarse gravel 18-22" FILL - gray angular fine to coarse gravel, little brown silty sand 22-27" FILL - fine sand, some silt trace coarse to fine angular gravel, trace coarse sand 27-32" FILL - dark brown/ black fine to medium sand, trace concrete, trace fine to coarse angular gravel, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	24	0-8" FILL - brown silty fine sand, trace fine to coarse gravel (angular), trace coarse sand 8-10" FILL - brown silty fine sand, some clay, trace fine to coarse gravel (angular), trace coarse sand 10-15" FILL - brown silty fine sand, trace fine angular gravel 15-19" FILL - fine sand, concrete powder, fine subangular gravel, trace coarse subangular gravel 19-22" FILL - brown fine sand, some to and silt 22-24" FILL - brick	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10								
15								
20								

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ENGINEERS FIELD BORING LOG

BORING ID SB-56
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	32	0-5" Pulverized concrete, angular gravel 5-9" FILL - black fine to coarse sand, trace subangular gravel, with cobble from 8-9" 9-14" FILL - brown fine to medium sand, little silt, trace coarse sand, fine rounded gravel 14-18" FILL - gray light brown fine to coarse sand, trace rounded fine gravel 18-30" FILL - dark brown fine sand, little to some silt, trace coarse sand, trace fine gravel 30-32" FILL - brick	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	48	0-5" FILL - tan fine to coarse sand, trace fine rounded gravel 5-10" FILL - brown to black fine sand, some silt, trace coarse sand to fine gravel 10-20" FILL - beige fragmented concrete/rock and fine sand size dust 20-23" FILL - dark brown fine sand, some silt 23-36" FILL - brown and black fine sand,some silt, trace fine to coarse gravel, trace coarse sand, lenses of pulverized concrete, brick 36-40" FILL - brown/black clayey silt 40-44" FILL- gray solid clay like material - bentonite?? 44-48" FILL - black fine sand, trace coarse sand, little silt, trace fine to coarse gravel	No odor, no evidence of purifier waste or coal tar. Slight petroleum like odor	Wet approx 7' bgs
10								
15								
20								
25								

HDR ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-57
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	34	0-5" Pulverized concrete, fine to coarse gravel 5-13" FILL - black fine sand, some silt, little fine to coarse angular gravel 13-22" FILL - brown silty fine sand, trace rounded coarse sand to fine gravel 22-26" FILL - tan fine to coarse sand, trace angular to rounded gravel 26-34" FILL - brown/ gray brown fine silty sand, trace medium sand		Dry
5			ND	--	29	0-16" FILL - olive gray/brown fine sandy silt, trace coarse sand to fine angular/subangular gravel, void 8-10" 16-29" FILL - dark brown/ black fine sand, some silt, very hard tar like substance, trace fine angular gravel	Tar like substance, no PID readings	Wet approx 8' bgs
10			ND	--	46	0-24" olive gray clay 24-30" black organic rich silt 30-46" brown fine to medium sand, trace fine to coarse rounded gravel EOB 15' bgs Zebra backfilled with bentonite to above clay layer prior to using cuttings as backfill.		
15								
20								
25								

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ENGINEERS FIELD BORING LOG

BORING ID SB-58
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/16/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND to 0.1	--	34	0-8" Pulverized concrete, angular gravel 8-12" FILL- black fine sand, trace to little silt, little coarse sand to fine gravel 12-16" FILL - dark gray angular fine to coarse gravel, trace to little silt, trace fine sand 16-23" FILL - brown silty fine sand, trace to fine gravel, trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Dry
5	SB-58	(7 -7.5')	ND	--	35	23-29" FILL - pulverized white rock 29-33" FILL - gray brown fine to coarse sand, trace fine grav. 33-34" FILL - dark brown silty fine sand 0-1" FILL - cobble, little white silt 1-18" FILL - brown to black fine to coarse sand, little silt, trace fine to coarse gravel, trace coal, trace glass, trace slag 18-35" olive gray/brown silty CLAY	No odor, no evidence of purifier waste or coal tar.	Wet approx 7' bgs
10						EOB 10' bgs Dewbery sampled SB-54 (7-7.5') bgs		
15								
20								
25								
30								
35								
40								
45								

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ENGINEERS FIELD BORING LOG

BORING ID SB-59
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	39	0-5" Pulverized concrete, angular gravel 5-10" FILL - black fine sand and silt, trace fine to coarse angular gravel, trace coal 10-26" FILL - gray angular gravel (fine to coarse) little gray silt 26-39" FILL - black/dark brown silty fine sand, trace medium to coarse sand, trace coal, slag, angular fine gravel	No odor, no evidence of purifier waste or coal tar.	Dry
5			ND	--	24	0-16" FILL - black to dark brown with spots of tan fine to medium sand, little silt, trace coal, trace fine to coarse angular gravel 16-24" FILL - olive gray/brown silty clay, trace mica trace coarse sand	No odor, no evidence of purifier waste or coal tar.	Wet approx 8-9' bgs
10						EOB 10' bgs		
15								
20								
25								
30								
35								
40								
45								
50								

HDR | ONE COMPANY *Many Solutions ®*

ENGINEERS FIELD BORING LOG

BORING ID SB-60
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	36	0-4" Pulverized concrete, angular gravel 4-12" FILL - brown silt, fine sand, trace brick, trace mica, trace coarse sand, fine gravel 12-33" FILL - dark brown silty fine sand, trace coal, trace brick, trace medium to coarse sand, trace fine to coarse angular gravel 33-36" FILL - pulverized mica schist	No odor, no evidence of purifier waste or coal tar.	Wet approx 4' bgs
5			ND	--	36	0-8" FILL - dark brown silty fine sand, trace coal, trace brick, trace medium to coarse sand, trace fine to coarse angular gravel 8-10" FILL- brick 10-18" FILL - black and brown fine to medium sand, some silt, trace angular fine to coarse gravel 18-24" FILL - brown fine to medium sand, trace fine to coarse angular gravel, trace coal 24-36" black/dark brown, tan, white, fine to coarse sand, trace fine to coarse angular gravel, trace coal, trace slag	No odor, no evidence of purifier waste or coal tar.	Wet
10						EOB 10' bgs		
15								
20								
25								
30								
35								
40								
45								

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ENGINEERS FIELD BORING LOG

BORING ID SB-61
SURFACE ELEVATION TBD
DATUM TBD
SHEET 1 OF 1

PROJECT NAME Food Center Drive Greenway Improvement Project

BORING LOCATION Along Food Center Drive, Hunts Point, Bronx, NY
MONITORING INSTRUMENTS PID (MiniRae 3000)
DRILLING METHOD GeoProbe 6620DT Direct Push

DRILLER NAME / COMPANY Zebra Env. Svcs. -
HDR FIELD INSPECTOR C. Mills
BORING DATE 1/17/2012

Depth (ft)	Sample No.	Sample Depth (ft)	PID (ppm)	Moisture/ Density	Recovery (inches)	Sample Description	Remarks	Groundwater Observations
0			ND	--	27	0-4" Pulverized concrete, angular gravel 4-14" FILL - brown silty fine sand, trace medium to coarse sand, trace glass, trace brick, trace fine angular gravel 14-17" FILL - brick, trace coal 17-27" FILL - brown fine sand, some silt, trace medium to coarse sand, trace fine to coarse angular gravel, trace cobble, trace brick	No odor, no evidence of purifier waste or coal tar.	Wet approx 4-5' bgs
5			ND	--	30	0-5" FILL - brown fine gravel, fine to coarse angular gravel, some silt 5-30" FILL - brown fine sand, some silt, trace coal, trace brick, trace fine to coarse angular gravel, trace medium to coarse sand	No odor, no evidence of purifier waste or coal tar.	Wet
10								
15								
20								
25								
30								
35								
40								
45								
50								

TP-1
6 ft long by 2 ft wide by 6 ft deep

0-1ft Asphalt
1-2ft FILL - brown / light brown sandy and silt, trace fine to coarse gravel, cobbles, and boulders
2-3.5 ft FIll - black/ dark brown sand and silt, trace to little brick, concrete, fine to coarse gravel, cobbles, and boulders
3.5 -6 ft FILL - dark brown sand and silt, trace to little fine to coarse gravel, cobbles, boulders, and concrete, wood at bottom of excavation.

TP-2
2-3 ft long by 2 ft wide by 4 ft deep
0-1.5 ft Asphalt
1.5 - 2.5 ft FIll - brown fine sand, trace coarse sand, trace rounded gravel
2.5 - 3.0 ft FIll - tan fine to coarse sand, trace rounded fine to coarse gravel
3 - 4 ft FILL - dark brown/ black fine sand, some silt, trace angular fine to coarse gravel, bricks and concrete blocks

TP-3
3 ft long by 2 ft wide by 3 ft deep
0-1.5 ft Asphalt
1.5 - 3 ft FILL - brown fine sand, little to some silt, trace fine gravel, cobbled, boulders

Attachment E


pDR-1000 / Tag # 01 / Start time: Jan 09, 09:01:24
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
mg/m³
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
11:20
11:30
11:40
11:50
12:00
12:10
12:20
12:30
12:40
Time (pDR)

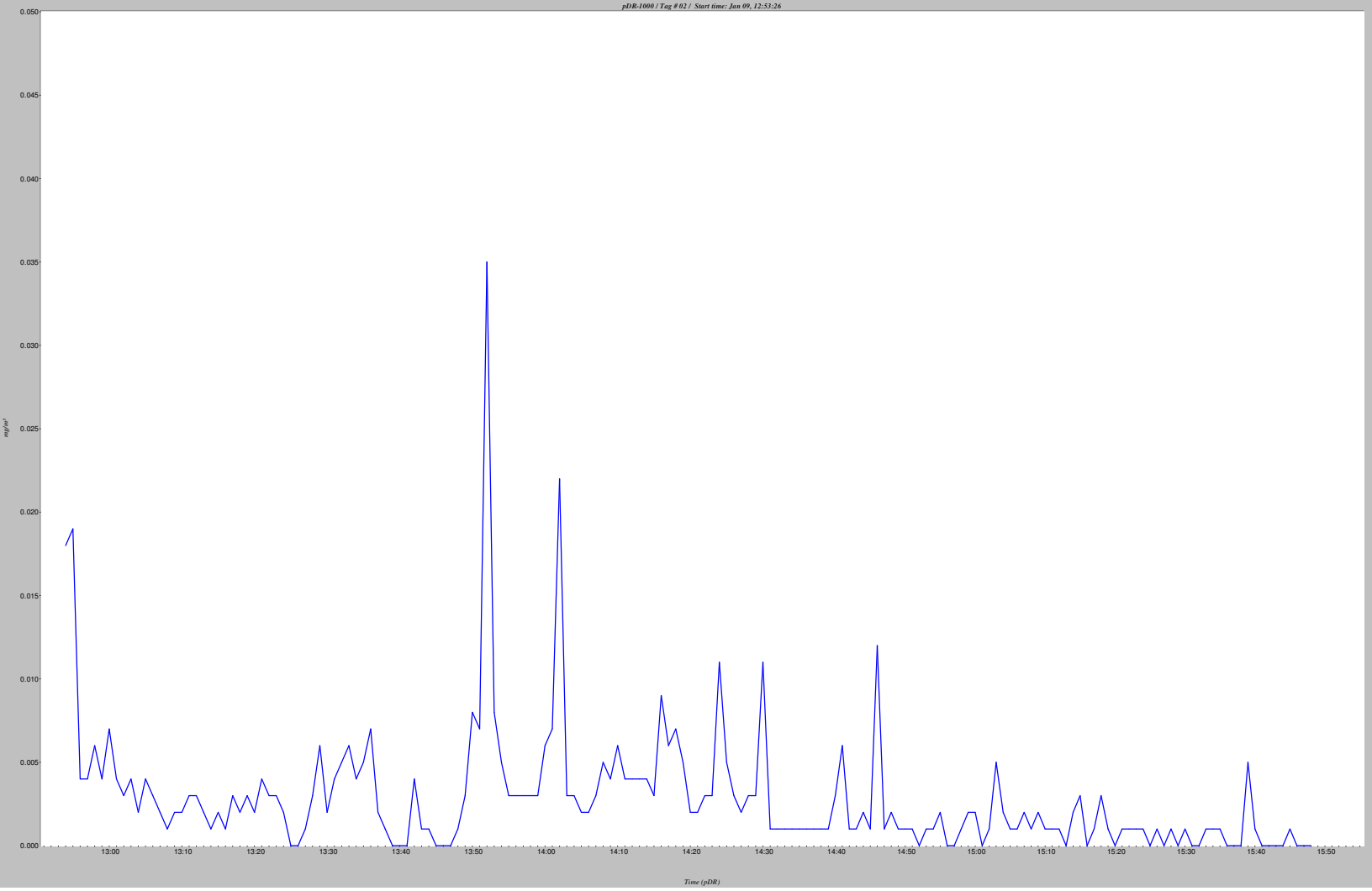
pDR-1000
Tag Number: 01
Number of logged points: 211
Start time and date: 09:01:24 09-Jan
Elapsed time: 03:31:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.000 mg/m³
Time at maximum: 09:01:24 Jan 09
Max STEL Concentration: 0.000 mg/m³
Time at max STEL: 09:01:24 Jan 09
Overall Avg Conc: 0.000 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
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2	09 Jan	09:03:24	0.000
3	09 Jan	09:04:24	0.000
4	09 Jan	09:05:24	0.000
5	09 Jan	09:06:24	0.000
6	09 Jan	09:07:24	0.000
7	09 Jan	09:08:24	0.000
8	09 Jan	09:09:24	0.000
9	09 Jan	09:10:24	0.000
10	09 Jan	09:11:24	0.000
11	09 Jan	09:12:24	0.000
12	09 Jan	09:13:24	0.000
13	09 Jan	09:14:24	0.000
14	09 Jan	09:15:24	0.000
15	09 Jan	09:16:24	0.000
16	09 Jan	09:17:24	0.000
17	09 Jan	09:18:24	0.000
18	09 Jan	09:19:24	0.000
19	09 Jan	09:20:24	0.000
20	09 Jan	09:21:24	0.000
21	09 Jan	09:22:24	0.000
22	09 Jan	09:23:24	0.000
23	09 Jan	09:24:24	0.000
24	09 Jan	09:25:24	0.000
25	09 Jan	09:26:24	0.000
26	09 Jan	09:27:24	0.000
27	09 Jan	09:28:24	0.000
28	09 Jan	09:29:24	0.000
29	09 Jan	09:30:24	0.000
30	09 Jan	09:31:24	0.000
31	09 Jan	09:32:24	0.000
32	09 Jan	09:33:24	0.000
33	09 Jan	09:34:24	0.000
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35	09 Jan	09:36:24	0.000
36	09 Jan	09:37:24	0.000
37	09 Jan	09:38:24	0.000
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39	09 Jan	09:40:24	0.000
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56	09 Jan	09:57:24	0.000
57	09 Jan	09:58:24	0.000

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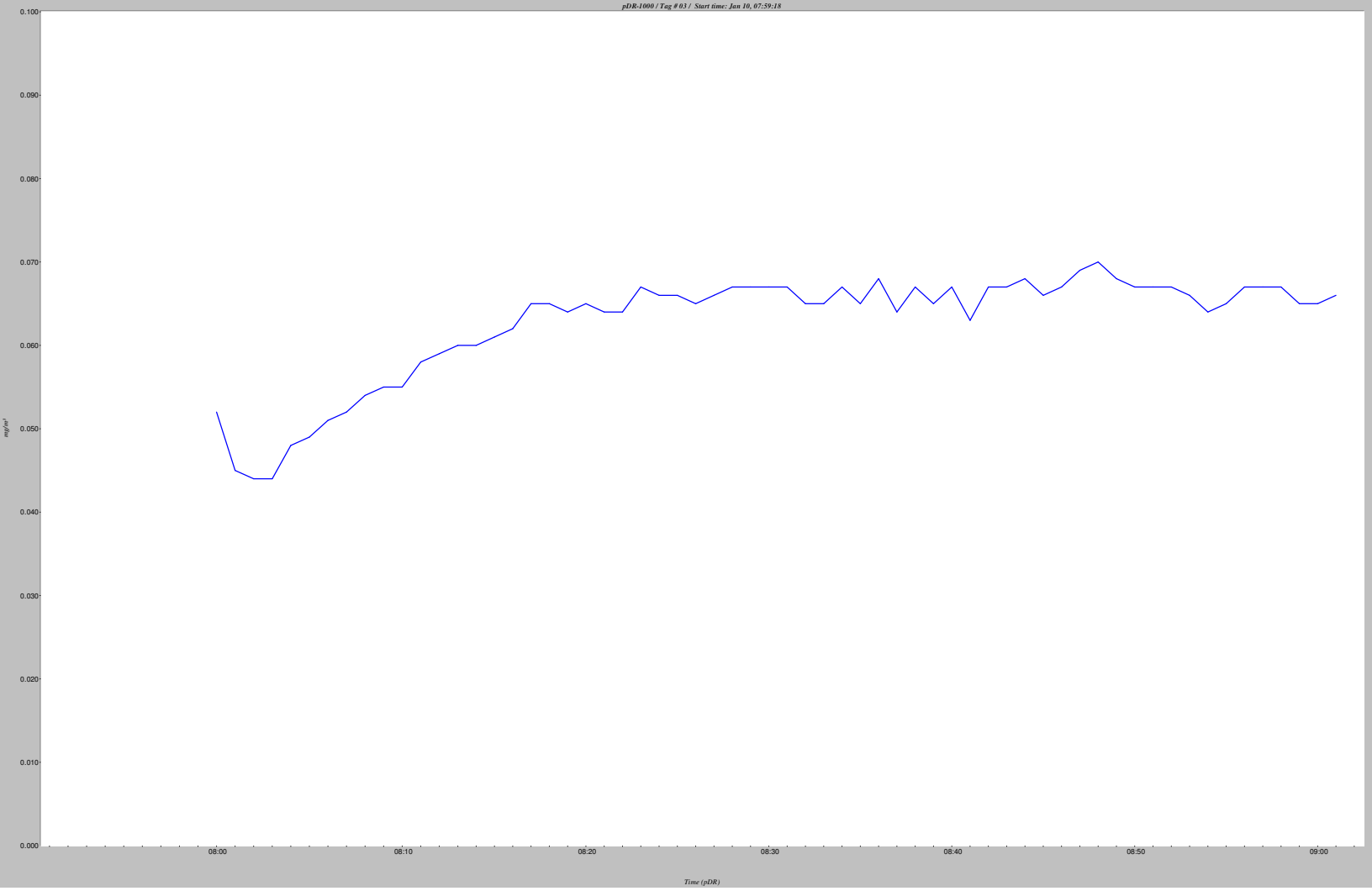

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0.025
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0.010
0.005
0.000
mg/m³
13:00
13:10
13:20
13:30
13:40
13:50
14:00
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
15:40
15:50
Time (pDR)

pDR-1000
Tag Number: 02
Number of logged points: 175
Start time and date: 12:53:26 09-Jan
Elapsed time: 02:55:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.102 mg/m³
Time at maximum: 14:02:00 Jan 09
Max STEL Concentration: 0.005 mg/m³
Time at max STEL: 14:02:26 Jan 09
Overall Avg Conc: 0.002 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
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6	09 Jan	12:59:26	0.004
7	09 Jan	13:00:26	0.007
8	09 Jan	13:01:26	0.004
9	09 Jan	13:02:26	0.003
10	09 Jan	13:03:26	0.004
11	09 Jan	13:04:26	0.002
12	09 Jan	13:05:26	0.004
13	09 Jan	13:06:26	0.003
14	09 Jan	13:07:26	0.002
15	09 Jan	13:08:26	0.001
16	09 Jan	13:09:26	0.002
17	09 Jan	13:10:26	0.002
18	09 Jan	13:11:26	0.003
19	09 Jan	13:12:26	0.003
20	09 Jan	13:13:26	0.002
21	09 Jan	13:14:26	0.001
22	09 Jan	13:15:26	0.002
23	09 Jan	13:16:26	0.001
24	09 Jan	13:17:26	0.003
25	09 Jan	13:18:26	0.002
26	09 Jan	13:19:26	0.003
27	09 Jan	13:20:26	0.002
28	09 Jan	13:21:26	0.004
29	09 Jan	13:22:26	0.003
30	09 Jan	13:23:26	0.003
31	09 Jan	13:24:26	0.002
32	09 Jan	13:25:26	0.000
33	09 Jan	13:26:26	0.000
34	09 Jan	13:27:26	0.001
35	09 Jan	13:28:26	0.003
36	09 Jan	13:29:26	0.006
37	09 Jan	13:30:26	0.002
38	09 Jan	13:31:26	0.004
39	09 Jan	13:32:26	0.005
40	09 Jan	13:33:26	0.006
41	09 Jan	13:34:26	0.004
42	09 Jan	13:35:26	0.005
43	09 Jan	13:36:26	0.007
44	09 Jan	13:37:26	0.002
45	09 Jan	13:38:26	0.001
46	09 Jan	13:39:26	0.000
47	09 Jan	13:40:26	0.000
48	09 Jan	13:41:26	0.000
49	09 Jan	13:42:26	0.004
50	09 Jan	13:43:26	0.001
51	09 Jan	13:44:26	0.001
52	09 Jan	13:45:26	0.000
53	09 Jan	13:46:26	0.000
54	09 Jan	13:47:26	0.000
55	09 Jan	13:48:26	0.001
56	09 Jan	13:49:26	0.003
57	09 Jan	13:50:26	0.008

58,	09 Jan,	13:51:26,	0.007
59,	09 Jan,	13:52:26,	0.035
60,	09 Jan,	13:53:26,	0.008
61,	09 Jan,	13:54:26,	0.005
62,	09 Jan,	13:55:26,	0.003
63,	09 Jan,	13:56:26,	0.003
64,	09 Jan,	13:57:26,	0.003
65,	09 Jan,	13:58:26,	0.003
66,	09 Jan,	13:59:26,	0.003
67,	09 Jan,	14:00:26,	0.006
68,	09 Jan,	14:01:26,	0.007
69,	09 Jan,	14:02:26,	0.022
70,	09 Jan,	14:03:26,	0.003
71,	09 Jan,	14:04:26,	0.003
72,	09 Jan,	14:05:26,	0.002
73,	09 Jan,	14:06:26,	0.002
74,	09 Jan,	14:07:26,	0.003
75,	09 Jan,	14:08:26,	0.005
76,	09 Jan,	14:09:26,	0.004
77,	09 Jan,	14:10:26,	0.006
78,	09 Jan,	14:11:26,	0.004
79,	09 Jan,	14:12:26,	0.004
80,	09 Jan,	14:13:26,	0.004
81,	09 Jan,	14:14:26,	0.004
82,	09 Jan,	14:15:26,	0.003
83,	09 Jan,	14:16:26,	0.009
84,	09 Jan,	14:17:26,	0.006
85,	09 Jan,	14:18:26,	0.007
86,	09 Jan,	14:19:26,	0.005
87,	09 Jan,	14:20:26,	0.002
88,	09 Jan,	14:21:26,	0.002
89,	09 Jan,	14:22:26,	0.003
90,	09 Jan,	14:23:26,	0.003
91,	09 Jan,	14:24:26,	0.011
92,	09 Jan,	14:25:26,	0.005
93,	09 Jan,	14:26:26,	0.003
94,	09 Jan,	14:27:26,	0.002
95,	09 Jan,	14:28:26,	0.003
96,	09 Jan,	14:29:26,	0.003
97,	09 Jan,	14:30:26,	0.011
98,	09 Jan,	14:31:26,	0.001
99,	09 Jan,	14:32:26,	0.001
100,	09 Jan,	14:33:26,	0.001
101,	09 Jan,	14:34:26,	0.001
102,	09 Jan,	14:35:26,	0.001
103,	09 Jan,	14:36:26,	0.001
104,	09 Jan,	14:37:26,	0.001
105,	09 Jan,	14:38:26,	0.001
106,	09 Jan,	14:39:26,	0.001
107,	09 Jan,	14:40:26,	0.003
108,	09 Jan,	14:41:26,	0.006
109,	09 Jan,	14:42:26,	0.001
110,	09 Jan,	14:43:26,	0.001
111,	09 Jan,	14:44:26,	0.002
112,	09 Jan,	14:45:26,	0.001
113,	09 Jan,	14:46:26,	0.012
114,	09 Jan,	14:47:26,	0.001
115,	09 Jan,	14:48:26,	0.002
116,	09 Jan,	14:49:26,	0.001
117,	09 Jan,	14:50:26,	0.001
118,	09 Jan,	14:51:26,	0.001
119,	09 Jan,	14:52:26,	0.000
120,	09 Jan,	14:53:26,	0.001
121,	09 Jan,	14:54:26,	0.001
122,	09 Jan,	14:55:26,	0.002
123,	09 Jan,	14:56:26,	0.000
124,	09 Jan,	14:57:26,	0.000
125,	09 Jan,	14:58:26,	0.001
126,	09 Jan,	14:59:26,	0.002
127,	09 Jan,	15:00:26,	0.002
128,	09 Jan,	15:01:26,	0.000

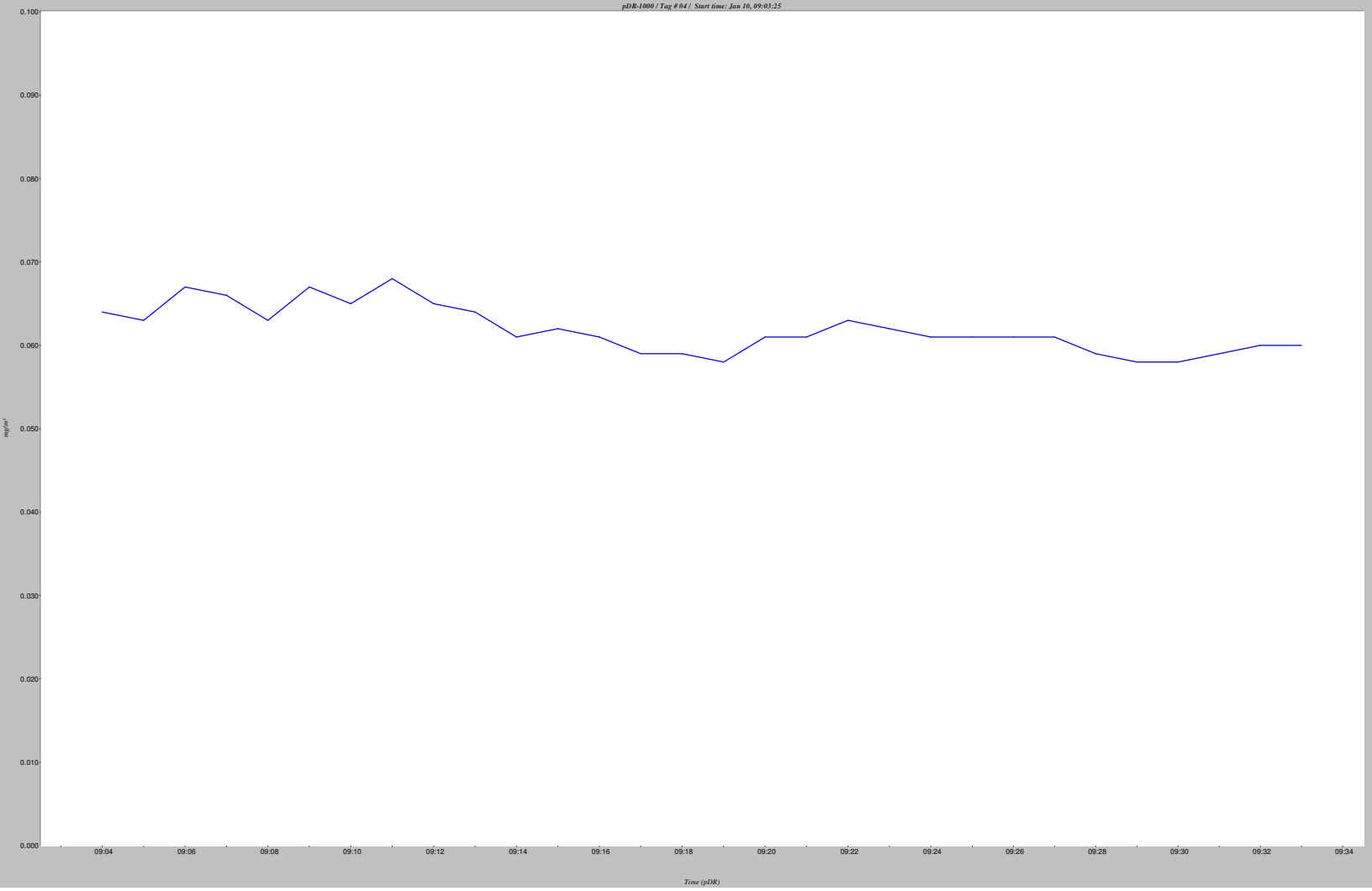
129, 09 Jan, 15:02:26, 0.001
130, 09 Jan, 15:03:26, 0.005
131, 09 Jan, 15:04:26, 0.002
132, 09 Jan, 15:05:26, 0.001
133, 09 Jan, 15:06:26, 0.001
134, 09 Jan, 15:07:26, 0.002
135, 09 Jan, 15:08:26, 0.001
136, 09 Jan, 15:09:26, 0.002
137, 09 Jan, 15:10:26, 0.001
138, 09 Jan, 15:11:26, 0.001
139, 09 Jan, 15:12:26, 0.001
140, 09 Jan, 15:13:26, 0.000
141, 09 Jan, 15:14:26, 0.002
142, 09 Jan, 15:15:26, 0.003
143, 09 Jan, 15:16:26, 0.000
144, 09 Jan, 15:17:26, 0.001
145, 09 Jan, 15:18:26, 0.003
146, 09 Jan, 15:19:26, 0.001
147, 09 Jan, 15:20:26, 0.000
148, 09 Jan, 15:21:26, 0.001
149, 09 Jan, 15:22:26, 0.001
150, 09 Jan, 15:23:26, 0.001
151, 09 Jan, 15:24:26, 0.001
152, 09 Jan, 15:25:26, 0.000
153, 09 Jan, 15:26:26, 0.001
154, 09 Jan, 15:27:26, 0.000
155, 09 Jan, 15:28:26, 0.001
156, 09 Jan, 15:29:26, 0.000
157, 09 Jan, 15:30:26, 0.001
158, 09 Jan, 15:31:26, 0.000
159, 09 Jan, 15:32:26, 0.000
160, 09 Jan, 15:33:26, 0.001
161, 09 Jan, 15:34:26, 0.001
162, 09 Jan, 15:35:26, 0.001
163, 09 Jan, 15:36:26, 0.000
164, 09 Jan, 15:37:26, 0.000
165, 09 Jan, 15:38:26, 0.000
166, 09 Jan, 15:39:26, 0.005
167, 09 Jan, 15:40:26, 0.001
168, 09 Jan, 15:41:26, 0.000
169, 09 Jan, 15:42:26, 0.000
170, 09 Jan, 15:43:26, 0.000
171, 09 Jan, 15:44:26, 0.000
172, 09 Jan, 15:45:26, 0.001
173, 09 Jan, 15:46:26, 0.000
174, 09 Jan, 15:47:26, 0.000
175, 09 Jan, 15:48:26, 0.000


pDR-1000 / Tag # 03 / Start time: Jan 10, 07:59:18
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
08:00
08:10
08:20
08:30
08:40
08:50
09:00
Time (pDR)

pDR-1000
Tag Number: 03
Number of logged points: 62
Start time and date: 07:59:18 10-Jan
Elapsed time: 01:02:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.120 mg/m³
Time at maximum: 08:00:22 Jan 10
Max STEL Concentration: 0.067 mg/m³
Time at max STEL: 08:47:48 Jan 10
Overall Avg Conc: 0.063 mg/m³
Logged Data:

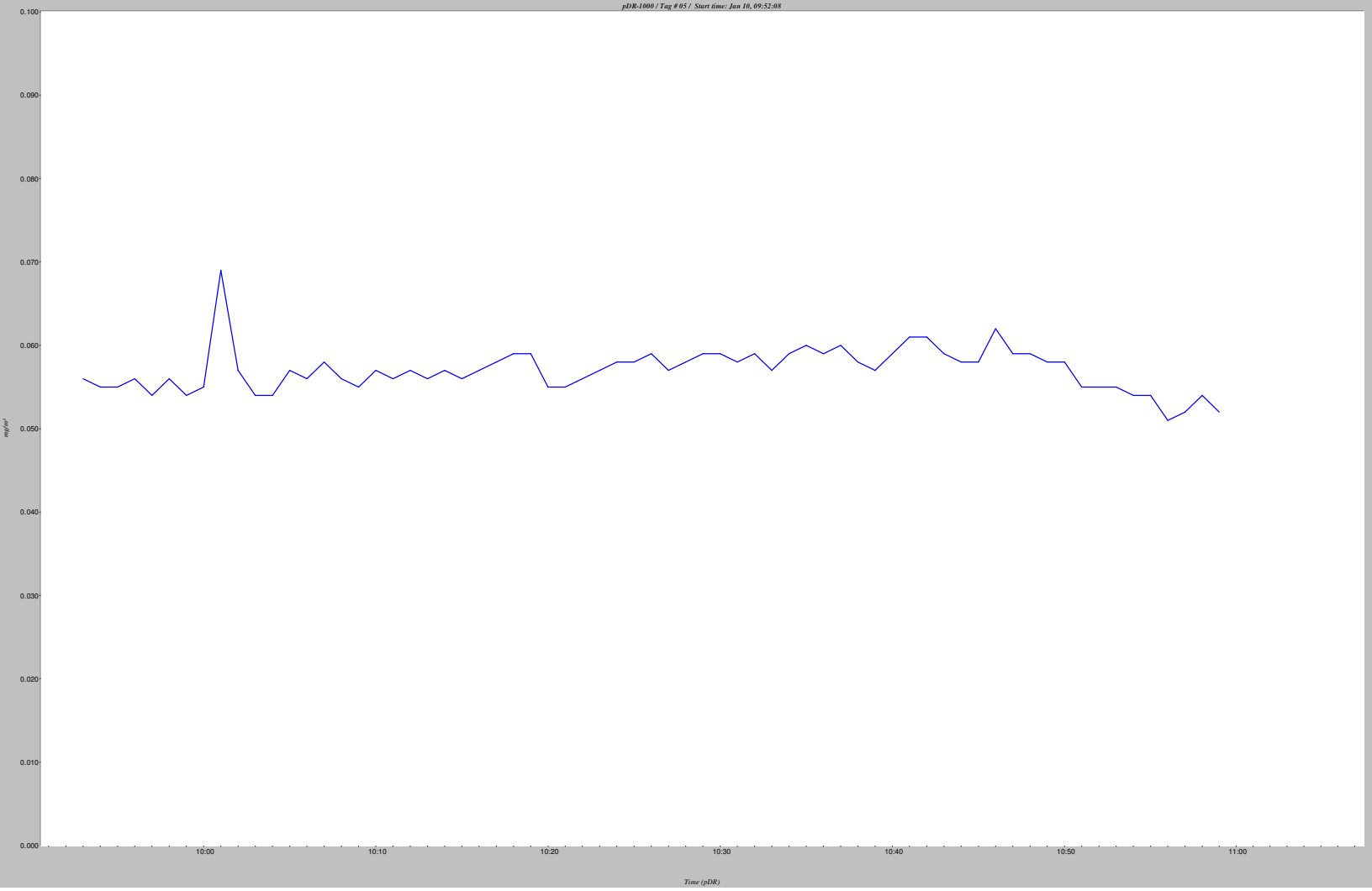
Point	Date	Time	Avg.(mg/m³)
1	10 Jan	08:00:18	0.052
2	10 Jan	08:01:18	0.045
3	10 Jan	08:02:18	0.044
4	10 Jan	08:03:18	0.044
5	10 Jan	08:04:18	0.048
6	10 Jan	08:05:18	0.049
7	10 Jan	08:06:18	0.051
8	10 Jan	08:07:18	0.052
9	10 Jan	08:08:18	0.054
10	10 Jan	08:09:18	0.055
11	10 Jan	08:10:18	0.055
12	10 Jan	08:11:18	0.058
13	10 Jan	08:12:18	0.059
14	10 Jan	08:13:18	0.060
15	10 Jan	08:14:18	0.060
16	10 Jan	08:15:18	0.061
17	10 Jan	08:16:18	0.062
18	10 Jan	08:17:18	0.065
19	10 Jan	08:18:18	0.065
20	10 Jan	08:19:18	0.064
21	10 Jan	08:20:18	0.065
22	10 Jan	08:21:18	0.064
23	10 Jan	08:22:18	0.064
24	10 Jan	08:23:18	0.067
25	10 Jan	08:24:18	0.066
26	10 Jan	08:25:18	0.066
27	10 Jan	08:26:18	0.065
28	10 Jan	08:27:18	0.066
29	10 Jan	08:28:18	0.067
30	10 Jan	08:29:18	0.067
31	10 Jan	08:30:18	0.067
32	10 Jan	08:31:18	0.067
33	10 Jan	08:32:18	0.065
34	10 Jan	08:33:18	0.065
35	10 Jan	08:34:18	0.067
36	10 Jan	08:35:18	0.065
37	10 Jan	08:36:18	0.068
38	10 Jan	08:37:18	0.064
39	10 Jan	08:38:18	0.067
40	10 Jan	08:39:18	0.065
41	10 Jan	08:40:18	0.067
42	10 Jan	08:41:18	0.063
43	10 Jan	08:42:18	0.067
44	10 Jan	08:43:18	0.067
45	10 Jan	08:44:18	0.068
46	10 Jan	08:45:18	0.066
47	10 Jan	08:46:18	0.067
48	10 Jan	08:47:18	0.069
49	10 Jan	08:48:18	0.070
50	10 Jan	08:49:18	0.068
51	10 Jan	08:50:18	0.067
52	10 Jan	08:51:18	0.067
53	10 Jan	08:52:18	0.067
54	10 Jan	08:53:18	0.066
55	10 Jan	08:54:18	0.064
56	10 Jan	08:55:18	0.065
57	10 Jan	08:56:18	0.067

58, 10 Jan, 08:57:18, 0.067
59, 10 Jan, 08:58:18, 0.067
60, 10 Jan, 08:59:18, 0.065
61, 10 Jan, 09:00:18, 0.065
62, 10 Jan, 09:01:18, 0.066


pDR-1000 / Tag # 04 / Start time: Jan 10, 09:03:25
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:04
09:06
09:08
09:10
09:12
09:14
09:16
09:18
09:20
09:22
09:24
09:26
09:28
09:30
09:32
09:34
Time (pDR)

pDR-1000
Tag Number: 04
Number of logged points: 30
Start time and date: 09:03:25 10-Jan
Elapsed time: 00:30:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.084 mg/m³
Time at maximum: 09:10:46 Jan 10
Max STEL Concentration: 0.063 mg/m³
Time at max STEL: 09:18:25 Jan 10
Overall Avg Conc: 0.062 mg/m³
Logged Data:

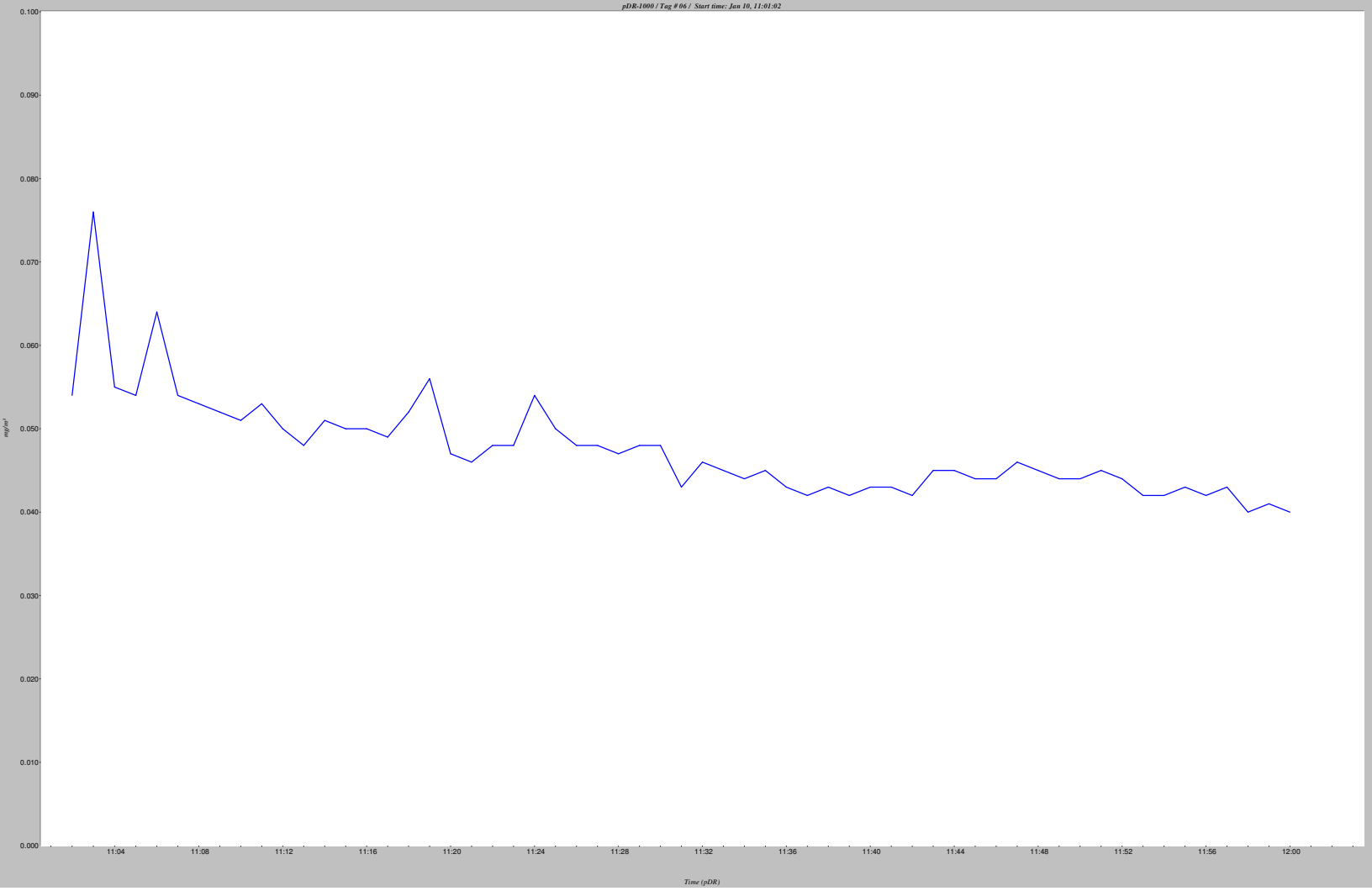
Point	Date	Time	Avg.(mg/m³)
1	10 Jan	09:04:25	0.064
2	10 Jan	09:05:25	0.063
3	10 Jan	09:06:25	0.067
4	10 Jan	09:07:25	0.066
5	10 Jan	09:08:25	0.063
6	10 Jan	09:09:25	0.067
7	10 Jan	09:10:25	0.065
8	10 Jan	09:11:25	0.068
9	10 Jan	09:12:25	0.065
10	10 Jan	09:13:25	0.064
11	10 Jan	09:14:25	0.061
12	10 Jan	09:15:25	0.062
13	10 Jan	09:16:25	0.061
14	10 Jan	09:17:25	0.059
15	10 Jan	09:18:25	0.059
16	10 Jan	09:19:25	0.058
17	10 Jan	09:20:25	0.061
18	10 Jan	09:21:25	0.061
19	10 Jan	09:22:25	0.063
20	10 Jan	09:23:25	0.062
21	10 Jan	09:24:25	0.061
22	10 Jan	09:25:25	0.061
23	10 Jan	09:26:25	0.061
24	10 Jan	09:27:25	0.061
25	10 Jan	09:28:25	0.059
26	10 Jan	09:29:25	0.058
27	10 Jan	09:30:25	0.058
28	10 Jan	09:31:25	0.059
29	10 Jan	09:32:25	0.060
30	10 Jan	09:33:25	0.060


pDR-1000 / Tag # 05 / Start time: Jan 10, 09:52:08
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
10:00
10:10
10:20
10:30
10:40
10:50
11:00
Time (pDR)

pDR-1000
Tag Number: 05
Number of logged points: 67
Start time and date: 09:52:08 10-Jan
Elapsed time: 01:07:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.142 mg/m³
Time at maximum: 10:00:43 Jan 10
Max STEL Concentration: 0.060 mg/m³
Time at max STEL: 10:48:38 Jan 10
Overall Avg Conc: 0.057 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	09:53:08	0.056
2	10 Jan	09:54:08	0.055
3	10 Jan	09:55:08	0.055
4	10 Jan	09:56:08	0.056
5	10 Jan	09:57:08	0.054
6	10 Jan	09:58:08	0.056
7	10 Jan	09:59:08	0.054
8	10 Jan	10:00:08	0.055
9	10 Jan	10:01:08	0.069
10	10 Jan	10:02:08	0.057
11	10 Jan	10:03:08	0.054
12	10 Jan	10:04:08	0.054
13	10 Jan	10:05:08	0.057
14	10 Jan	10:06:08	0.056
15	10 Jan	10:07:08	0.058
16	10 Jan	10:08:08	0.056
17	10 Jan	10:09:08	0.055
18	10 Jan	10:10:08	0.057
19	10 Jan	10:11:08	0.056
20	10 Jan	10:12:08	0.057
21	10 Jan	10:13:08	0.056
22	10 Jan	10:14:08	0.057
23	10 Jan	10:15:08	0.056
24	10 Jan	10:16:08	0.057
25	10 Jan	10:17:08	0.058
26	10 Jan	10:18:08	0.059
27	10 Jan	10:19:08	0.059
28	10 Jan	10:20:08	0.055
29	10 Jan	10:21:08	0.055
30	10 Jan	10:22:08	0.056
31	10 Jan	10:23:08	0.057
32	10 Jan	10:24:08	0.058
33	10 Jan	10:25:08	0.058
34	10 Jan	10:26:08	0.059
35	10 Jan	10:27:08	0.057
36	10 Jan	10:28:08	0.058
37	10 Jan	10:29:08	0.059
38	10 Jan	10:30:08	0.059
39	10 Jan	10:31:08	0.058
40	10 Jan	10:32:08	0.059
41	10 Jan	10:33:08	0.057
42	10 Jan	10:34:08	0.059
43	10 Jan	10:35:08	0.060
44	10 Jan	10:36:08	0.059
45	10 Jan	10:37:08	0.060
46	10 Jan	10:38:08	0.058
47	10 Jan	10:39:08	0.057
48	10 Jan	10:40:08	0.059
49	10 Jan	10:41:08	0.061
50	10 Jan	10:42:08	0.061
51	10 Jan	10:43:08	0.059
52	10 Jan	10:44:08	0.058
53	10 Jan	10:45:08	0.058
54	10 Jan	10:46:08	0.062
55	10 Jan	10:47:08	0.059
56	10 Jan	10:48:08	0.059
57	10 Jan	10:49:08	0.058

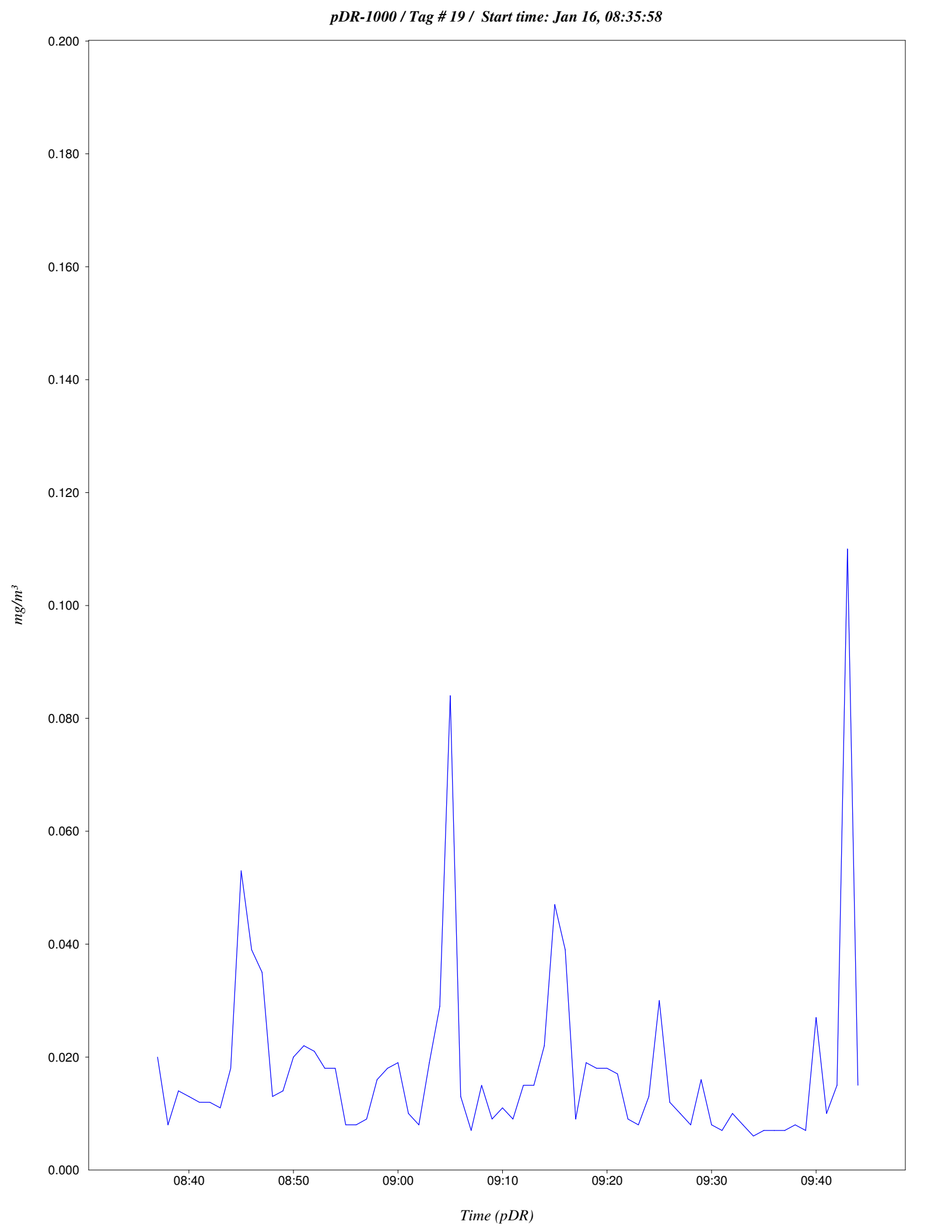
58, 10 Jan, 10:50:08, 0.058
59, 10 Jan, 10:51:08, 0.055
60, 10 Jan, 10:52:08, 0.055
61, 10 Jan, 10:53:08, 0.055
62, 10 Jan, 10:54:08, 0.054
63, 10 Jan, 10:55:08, 0.054
64, 10 Jan, 10:56:08, 0.051
65, 10 Jan, 10:57:08, 0.052
66, 10 Jan, 10:58:08, 0.054
67, 10 Jan, 10:59:08, 0.052


pDR-1000 / Tag # 06 / Start time: Jan 10, 11:01:02
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
11:04
11:08
11:12
11:16
11:20
11:24
11:28
11:32
11:36
11:40
11:44
11:48
11:52
11:56
12:00
Time (pDR)

pDR-1000
Tag Number: 06
Number of logged points: 59
Start time and date: 11:01:02 10-Jan
Elapsed time: 00:59:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.175 mg/m³
Time at maximum: 11:02:40 Jan 10
Max STEL Concentration: 0.054 mg/m³
Time at max STEL: 11:16:02 Jan 10
Overall Avg Conc: 0.047 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	11:02:02	0.054
2	10 Jan	11:03:02	0.076
3	10 Jan	11:04:02	0.055
4	10 Jan	11:05:02	0.054
5	10 Jan	11:06:02	0.064
6	10 Jan	11:07:02	0.054
7	10 Jan	11:08:02	0.053
8	10 Jan	11:09:02	0.052
9	10 Jan	11:10:02	0.051
10	10 Jan	11:11:02	0.053
11	10 Jan	11:12:02	0.050
12	10 Jan	11:13:02	0.048
13	10 Jan	11:14:02	0.051
14	10 Jan	11:15:02	0.050
15	10 Jan	11:16:02	0.050
16	10 Jan	11:17:02	0.049
17	10 Jan	11:18:02	0.052
18	10 Jan	11:19:02	0.056
19	10 Jan	11:20:02	0.047
20	10 Jan	11:21:02	0.046
21	10 Jan	11:22:02	0.048
22	10 Jan	11:23:02	0.048
23	10 Jan	11:24:02	0.054
24	10 Jan	11:25:02	0.050
25	10 Jan	11:26:02	0.048
26	10 Jan	11:27:02	0.048
27	10 Jan	11:28:02	0.047
28	10 Jan	11:29:02	0.048
29	10 Jan	11:30:02	0.048
30	10 Jan	11:31:02	0.043
31	10 Jan	11:32:02	0.046
32	10 Jan	11:33:02	0.045
33	10 Jan	11:34:02	0.044
34	10 Jan	11:35:02	0.045
35	10 Jan	11:36:02	0.043
36	10 Jan	11:37:02	0.042
37	10 Jan	11:38:02	0.043
38	10 Jan	11:39:02	0.042
39	10 Jan	11:40:02	0.043
40	10 Jan	11:41:02	0.043
41	10 Jan	11:42:02	0.042
42	10 Jan	11:43:02	0.045
43	10 Jan	11:44:02	0.045
44	10 Jan	11:45:02	0.044
45	10 Jan	11:46:02	0.044
46	10 Jan	11:47:02	0.046
47	10 Jan	11:48:02	0.045
48	10 Jan	11:49:02	0.044
49	10 Jan	11:50:02	0.044
50	10 Jan	11:51:02	0.045
51	10 Jan	11:52:02	0.044
52	10 Jan	11:53:02	0.042
53	10 Jan	11:54:02	0.042
54	10 Jan	11:55:02	0.043
55	10 Jan	11:56:02	0.042
56	10 Jan	11:57:02	0.043
57	10 Jan	11:58:02	0.040

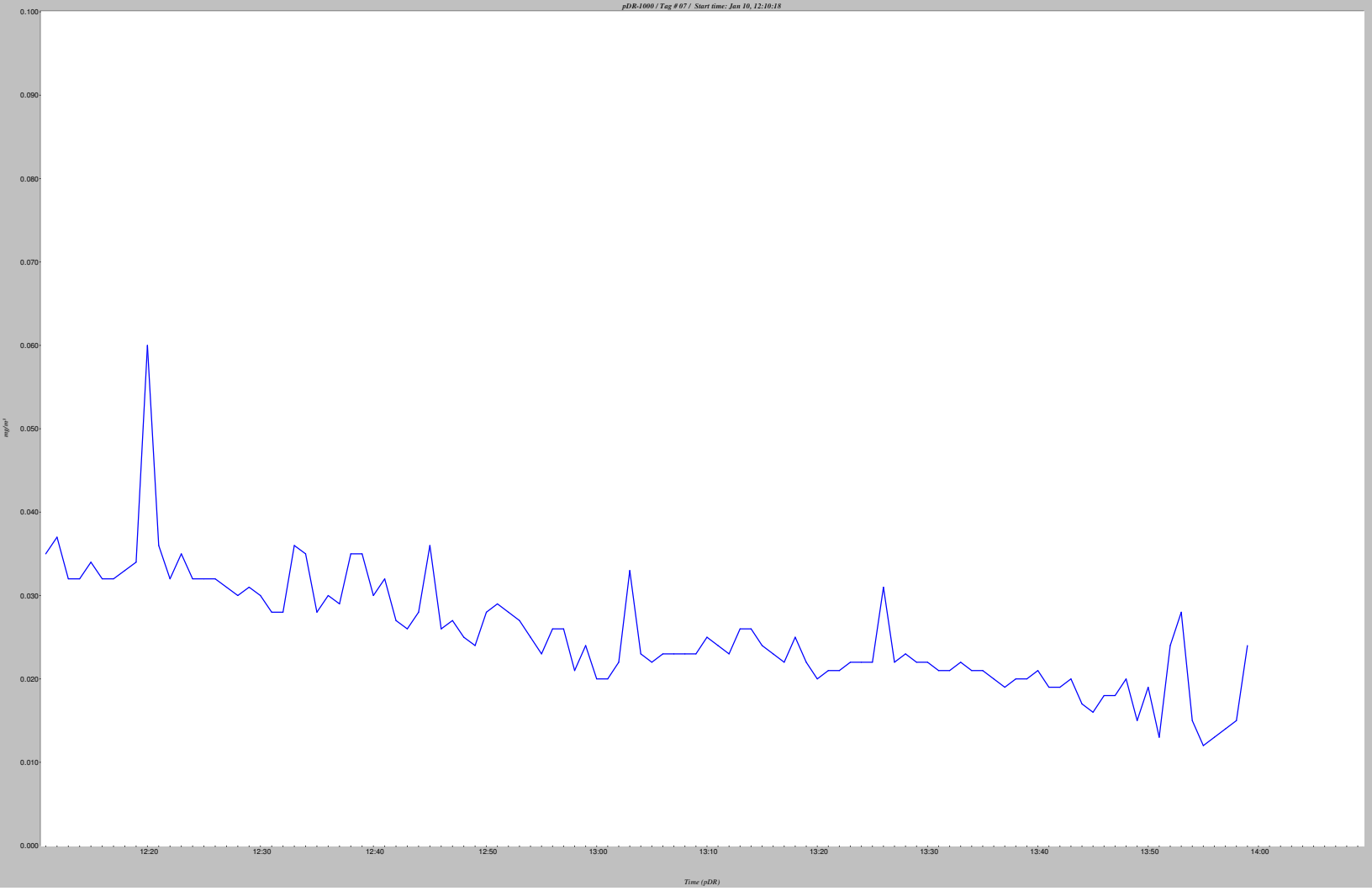
58, 10 Jan, 11:59:02, 0.041
59, 10 Jan, 12:00:02, 0.040


pDR-1000 / Tag # 19 / Start time: Jan 16, 08:35:58
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
08:40
08:50
09:00
09:10
09:20
09:30
09:40
Time (pDR)

pDR-1000
Tag Number: 19
Number of logged points: 68
Start time and date: 08:35:58 16-Jan
Elapsed time: 01:08:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.583 mg/m³
Time at maximum: 09:42:47 Jan 16
Max STEL Concentration: 0.023 mg/m³
Time at max STEL: 09:15:58 Jan 16
Overall Avg Conc: 0.018 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	08:36:58	0.020
2	16 Jan	08:37:58	0.008
3	16 Jan	08:38:58	0.014
4	16 Jan	08:39:58	0.013
5	16 Jan	08:40:58	0.012
6	16 Jan	08:41:58	0.012
7	16 Jan	08:42:58	0.011
8	16 Jan	08:43:58	0.018
9	16 Jan	08:44:58	0.053
10	16 Jan	08:45:58	0.039
11	16 Jan	08:46:58	0.035
12	16 Jan	08:47:58	0.013
13	16 Jan	08:48:58	0.014
14	16 Jan	08:49:58	0.020
15	16 Jan	08:50:58	0.022
16	16 Jan	08:51:58	0.021
17	16 Jan	08:52:58	0.018
18	16 Jan	08:53:58	0.018
19	16 Jan	08:54:58	0.008
20	16 Jan	08:55:58	0.008
21	16 Jan	08:56:58	0.009
22	16 Jan	08:57:58	0.016
23	16 Jan	08:58:58	0.018
24	16 Jan	08:59:58	0.019
25	16 Jan	09:00:58	0.010
26	16 Jan	09:01:58	0.008
27	16 Jan	09:02:58	0.019
28	16 Jan	09:03:58	0.029
29	16 Jan	09:04:58	0.084
30	16 Jan	09:05:58	0.013
31	16 Jan	09:06:58	0.007
32	16 Jan	09:07:58	0.015
33	16 Jan	09:08:58	0.009
34	16 Jan	09:09:58	0.011
35	16 Jan	09:10:58	0.009
36	16 Jan	09:11:58	0.015
37	16 Jan	09:12:58	0.015
38	16 Jan	09:13:58	0.022
39	16 Jan	09:14:58	0.047
40	16 Jan	09:15:58	0.039
41	16 Jan	09:16:58	0.009
42	16 Jan	09:17:58	0.019
43	16 Jan	09:18:58	0.018
44	16 Jan	09:19:58	0.018
45	16 Jan	09:20:58	0.017
46	16 Jan	09:21:58	0.009
47	16 Jan	09:22:58	0.008
48	16 Jan	09:23:58	0.013
49	16 Jan	09:24:58	0.030
50	16 Jan	09:25:58	0.012
51	16 Jan	09:26:58	0.010
52	16 Jan	09:27:58	0.008
53	16 Jan	09:28:58	0.016
54	16 Jan	09:29:58	0.008
55	16 Jan	09:30:58	0.007
56	16 Jan	09:31:58	0.010
57	16 Jan	09:32:58	0.008

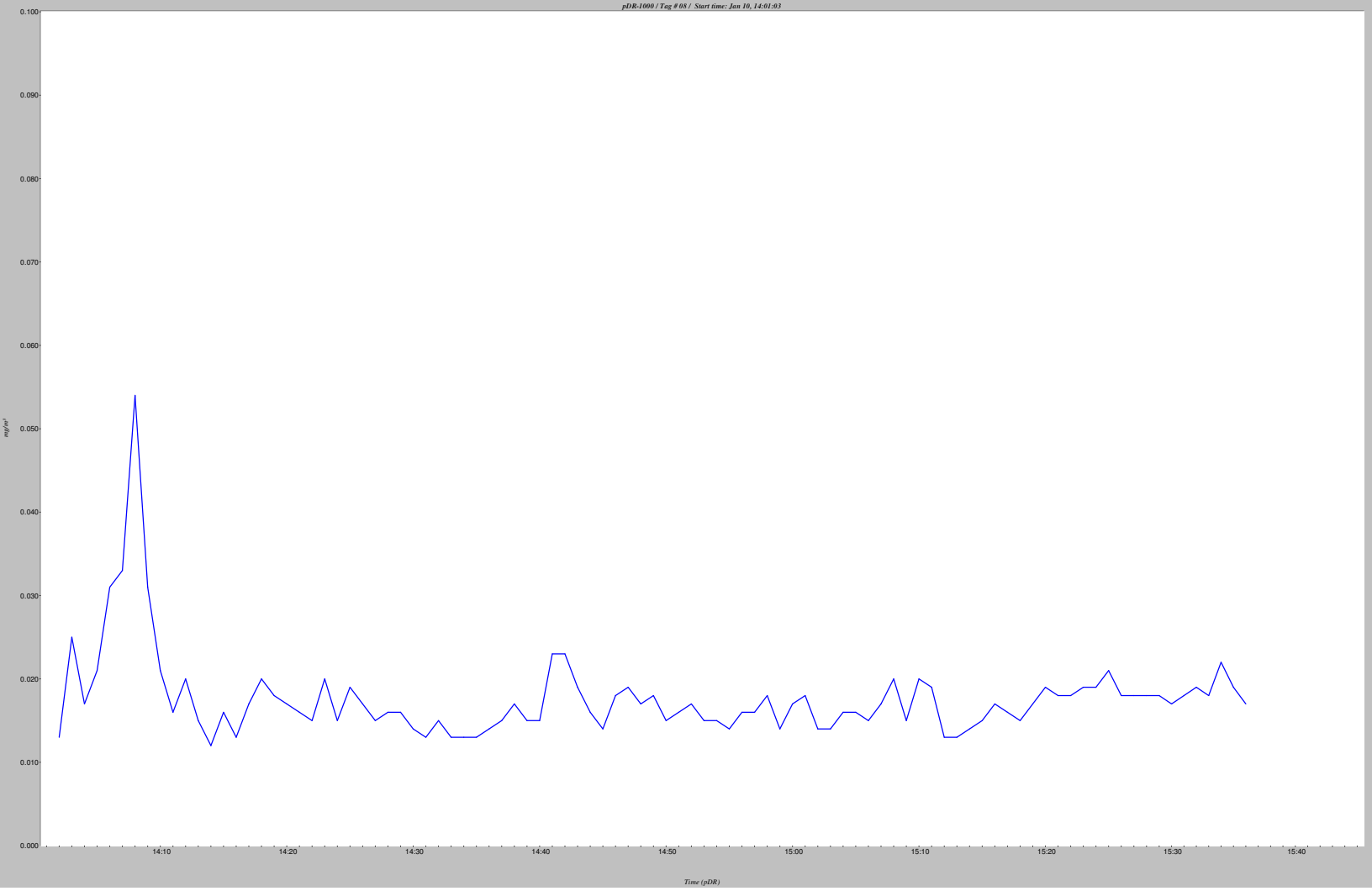
58, 16 Jan, 09:33:58, 0.006
59, 16 Jan, 09:34:58, 0.007
60, 16 Jan, 09:35:58, 0.007
61, 16 Jan, 09:36:58, 0.007
62, 16 Jan, 09:37:58, 0.008
63, 16 Jan, 09:38:58, 0.007
64, 16 Jan, 09:39:58, 0.027
65, 16 Jan, 09:40:58, 0.010
66, 16 Jan, 09:41:58, 0.015
67, 16 Jan, 09:42:58, 0.110
68, 16 Jan, 09:43:58, 0.015


pDR-1000 / Tag # 07 / Start time: Jan 10, 12:10:18
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
12:20
12:30
12:40
12:50
13:00
13:10
13:20
13:30
13:40
13:50
14:00
Time (pDR)

pDR-1000
Tag Number: 07
Number of logged points: 109
Start time and date: 12:10:18 10-Jan
Elapsed time: 01:49:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.154 mg/m³
Time at maximum: 12:19:58 Jan 10
Max STEL Concentration: 0.035 mg/m³
Time at max STEL: 12:25:19 Jan 10
Overall Avg Conc: 0.025 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	12:11:18	0.035
2	10 Jan	12:12:18	0.037
3	10 Jan	12:13:18	0.032
4	10 Jan	12:14:18	0.032
5	10 Jan	12:15:18	0.034
6	10 Jan	12:16:18	0.032
7	10 Jan	12:17:18	0.032
8	10 Jan	12:18:18	0.033
9	10 Jan	12:19:18	0.034
10	10 Jan	12:20:18	0.060
11	10 Jan	12:21:18	0.036
12	10 Jan	12:22:18	0.032
13	10 Jan	12:23:18	0.035
14	10 Jan	12:24:18	0.032
15	10 Jan	12:25:18	0.032
16	10 Jan	12:26:18	0.032
17	10 Jan	12:27:18	0.031
18	10 Jan	12:28:18	0.030
19	10 Jan	12:29:18	0.031
20	10 Jan	12:30:18	0.030
21	10 Jan	12:31:18	0.028
22	10 Jan	12:32:18	0.028
23	10 Jan	12:33:18	0.036
24	10 Jan	12:34:18	0.035
25	10 Jan	12:35:18	0.028
26	10 Jan	12:36:18	0.030
27	10 Jan	12:37:18	0.029
28	10 Jan	12:38:18	0.035
29	10 Jan	12:39:18	0.035
30	10 Jan	12:40:18	0.030
31	10 Jan	12:41:18	0.032
32	10 Jan	12:42:18	0.027
33	10 Jan	12:43:18	0.026
34	10 Jan	12:44:18	0.028
35	10 Jan	12:45:18	0.036
36	10 Jan	12:46:18	0.026
37	10 Jan	12:47:18	0.027
38	10 Jan	12:48:18	0.025
39	10 Jan	12:49:18	0.024
40	10 Jan	12:50:18	0.028
41	10 Jan	12:51:18	0.029
42	10 Jan	12:52:18	0.028
43	10 Jan	12:53:18	0.027
44	10 Jan	12:54:18	0.025
45	10 Jan	12:55:18	0.023
46	10 Jan	12:56:18	0.026
47	10 Jan	12:57:18	0.026
48	10 Jan	12:58:18	0.021
49	10 Jan	12:59:18	0.024
50	10 Jan	13:00:18	0.020
51	10 Jan	13:01:18	0.020
52	10 Jan	13:02:18	0.022
53	10 Jan	13:03:18	0.033
54	10 Jan	13:04:18	0.023
55	10 Jan	13:05:18	0.022
56	10 Jan	13:06:18	0.023
57	10 Jan	13:07:18	0.023

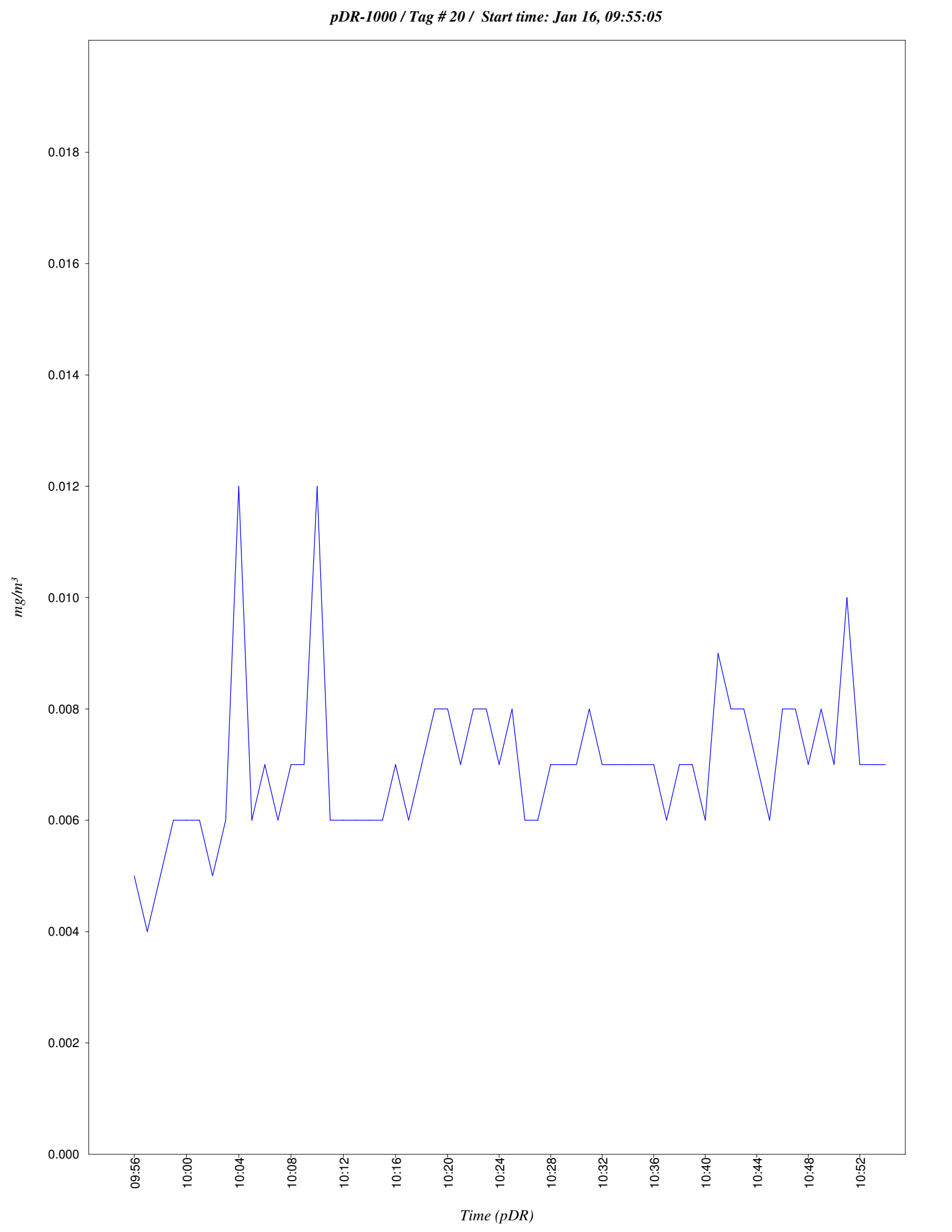
 58, 10 Jan, 13:08:18, 0.023
 59, 10 Jan, 13:09:18, 0.023
 60, 10 Jan, 13:10:18, 0.025
 61, 10 Jan, 13:11:18, 0.024
 62, 10 Jan, 13:12:18, 0.023
 63, 10 Jan, 13:13:18, 0.026
 64, 10 Jan, 13:14:18, 0.026
 65, 10 Jan, 13:15:18, 0.024
 66, 10 Jan, 13:16:18, 0.023
 67, 10 Jan, 13:17:18, 0.022
 68, 10 Jan, 13:18:18, 0.025
 69, 10 Jan, 13:19:18, 0.022
 70, 10 Jan, 13:20:18, 0.020
 71, 10 Jan, 13:21:18, 0.021
 72, 10 Jan, 13:22:18, 0.021
 73, 10 Jan, 13:23:18, 0.022
 74, 10 Jan, 13:24:18, 0.022
 75, 10 Jan, 13:25:18, 0.022
 76, 10 Jan, 13:26:18, 0.031
 77, 10 Jan, 13:27:18, 0.022
 78, 10 Jan, 13:28:18, 0.023
 79, 10 Jan, 13:29:18, 0.022
 80, 10 Jan, 13:30:18, 0.022
 81, 10 Jan, 13:31:18, 0.021
 82, 10 Jan, 13:32:18, 0.021
 83, 10 Jan, 13:33:18, 0.022
 84, 10 Jan, 13:34:18, 0.021
 85, 10 Jan, 13:35:18, 0.021
 86, 10 Jan, 13:36:18, 0.020
 87, 10 Jan, 13:37:18, 0.019
 88, 10 Jan, 13:38:18, 0.020
 89, 10 Jan, 13:39:18, 0.020
 90, 10 Jan, 13:40:18, 0.021
 91, 10 Jan, 13:41:18, 0.019
 92, 10 Jan, 13:42:18, 0.019
 93, 10 Jan, 13:43:18, 0.020
 94, 10 Jan, 13:44:18, 0.017
 95, 10 Jan, 13:45:18, 0.016
 96, 10 Jan, 13:46:18, 0.018
 97, 10 Jan, 13:47:18, 0.018
 98, 10 Jan, 13:48:18, 0.020
 99, 10 Jan, 13:49:18, 0.015
100, 10 Jan, 13:50:18, 0.019
101, 10 Jan, 13:51:18, 0.013
102, 10 Jan, 13:52:18, 0.024
103, 10 Jan, 13:53:18, 0.028
104, 10 Jan, 13:54:18, 0.015
105, 10 Jan, 13:55:18, 0.012
106, 10 Jan, 13:56:18, 0.013
107, 10 Jan, 13:57:18, 0.014
108, 10 Jan, 13:58:18, 0.015
109, 10 Jan, 13:59:18, 0.024


pDR-1000 / Tag # 08 / Start time: Jan 10, 14:01:03
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
15:40
Time (pDR)

pDR-1000
Tag Number: 08
Number of logged points: 95
Start time and date: 14:01:03 10-Jan
Elapsed time: 01:35:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.251 mg/m³
Time at maximum: 14:07:22 Jan 10
Max STEL Concentration: 0.023 mg/m³
Time at max STEL: 14:16:03 Jan 10
Overall Avg Conc: 0.018 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	14:02:03	0.013
2	10 Jan	14:03:03	0.025
3	10 Jan	14:04:03	0.017
4	10 Jan	14:05:03	0.021
5	10 Jan	14:06:03	0.031
6	10 Jan	14:07:03	0.033
7	10 Jan	14:08:03	0.054
8	10 Jan	14:09:03	0.031
9	10 Jan	14:10:03	0.021
10	10 Jan	14:11:03	0.016
11	10 Jan	14:12:03	0.020
12	10 Jan	14:13:03	0.015
13	10 Jan	14:14:03	0.012
14	10 Jan	14:15:03	0.016
15	10 Jan	14:16:03	0.013
16	10 Jan	14:17:03	0.017
17	10 Jan	14:18:03	0.020
18	10 Jan	14:19:03	0.018
19	10 Jan	14:20:03	0.017
20	10 Jan	14:21:03	0.016
21	10 Jan	14:22:03	0.015
22	10 Jan	14:23:03	0.020
23	10 Jan	14:24:03	0.015
24	10 Jan	14:25:03	0.019
25	10 Jan	14:26:03	0.017
26	10 Jan	14:27:03	0.015
27	10 Jan	14:28:03	0.016
28	10 Jan	14:29:03	0.016
29	10 Jan	14:30:03	0.014
30	10 Jan	14:31:03	0.013
31	10 Jan	14:32:03	0.015
32	10 Jan	14:33:03	0.013
33	10 Jan	14:34:03	0.013
34	10 Jan	14:35:03	0.013
35	10 Jan	14:36:03	0.014
36	10 Jan	14:37:03	0.015
37	10 Jan	14:38:03	0.017
38	10 Jan	14:39:03	0.015
39	10 Jan	14:40:03	0.015
40	10 Jan	14:41:03	0.023
41	10 Jan	14:42:03	0.023
42	10 Jan	14:43:03	0.019
43	10 Jan	14:44:03	0.016
44	10 Jan	14:45:03	0.014
45	10 Jan	14:46:03	0.018
46	10 Jan	14:47:03	0.019
47	10 Jan	14:48:03	0.017
48	10 Jan	14:49:03	0.018
49	10 Jan	14:50:03	0.015
50	10 Jan	14:51:03	0.016
51	10 Jan	14:52:03	0.017
52	10 Jan	14:53:03	0.015
53	10 Jan	14:54:03	0.015
54	10 Jan	14:55:03	0.014
55	10 Jan	14:56:03	0.016
56	10 Jan	14:57:03	0.016
57	10 Jan	14:58:03	0.018

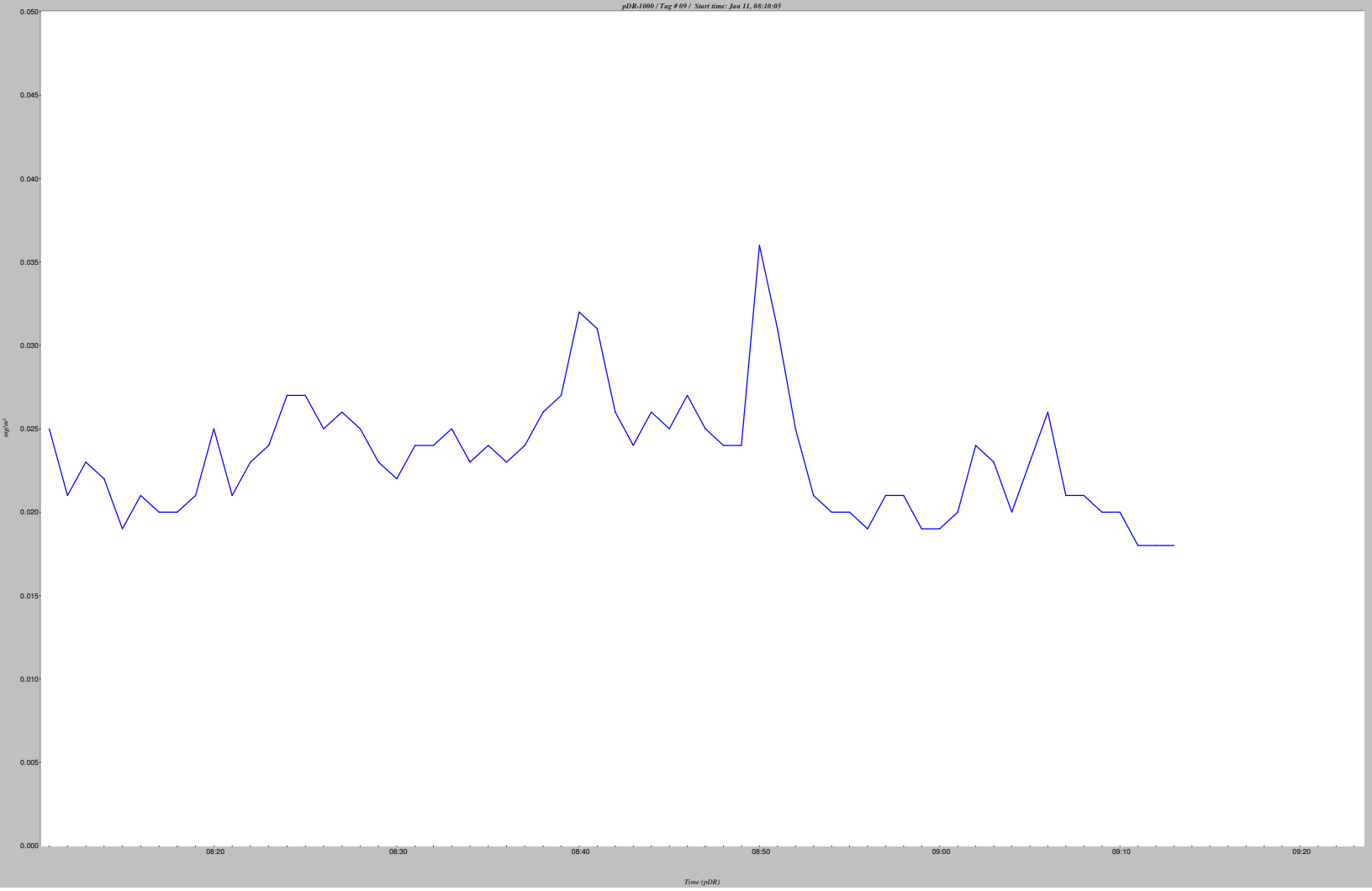
58, 10 Jan, 14:59:03, 0.014
59, 10 Jan, 15:00:03, 0.017
60, 10 Jan, 15:01:03, 0.018
61, 10 Jan, 15:02:03, 0.014
62, 10 Jan, 15:03:03, 0.014
63, 10 Jan, 15:04:03, 0.016
64, 10 Jan, 15:05:03, 0.016
65, 10 Jan, 15:06:03, 0.015
66, 10 Jan, 15:07:03, 0.017
67, 10 Jan, 15:08:03, 0.020
68, 10 Jan, 15:09:03, 0.015
69, 10 Jan, 15:10:03, 0.020
70, 10 Jan, 15:11:03, 0.019
71, 10 Jan, 15:12:03, 0.013
72, 10 Jan, 15:13:03, 0.013
73, 10 Jan, 15:14:03, 0.014
74, 10 Jan, 15:15:03, 0.015
75, 10 Jan, 15:16:03, 0.017
76, 10 Jan, 15:17:03, 0.016
77, 10 Jan, 15:18:03, 0.015
78, 10 Jan, 15:19:03, 0.017
79, 10 Jan, 15:20:03, 0.019
80, 10 Jan, 15:21:03, 0.018
81, 10 Jan, 15:22:03, 0.018
82, 10 Jan, 15:23:03, 0.019
83, 10 Jan, 15:24:03, 0.019
84, 10 Jan, 15:25:03, 0.021
85, 10 Jan, 15:26:03, 0.018
86, 10 Jan, 15:27:03, 0.018
87, 10 Jan, 15:28:03, 0.018
88, 10 Jan, 15:29:03, 0.018
89, 10 Jan, 15:30:03, 0.017
90, 10 Jan, 15:31:03, 0.018
91, 10 Jan, 15:32:03, 0.019
92, 10 Jan, 15:33:03, 0.018
93, 10 Jan, 15:34:03, 0.022
94, 10 Jan, 15:35:03, 0.019
95, 10 Jan, 15:36:03, 0.017


pDR-1000 / Tag # 20 / Start time: Jan 16, 09:55:05
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
09:56
10:00
10:04
10:08
10:12
10:16
10:20
10:24
10:28
10:32
10:36
10:40
10:44
10:48
10:52
Time (pDR)

pDR-1000
Tag Number: 20
Number of logged points: 59
Start time and date: 09:55:05 16-Jan
Elapsed time: 00:59:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.036 mg/m³
Time at maximum: 10:09:52 Jan 16
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 10:53:36 Jan 16
Overall Avg Conc: 0.007 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	09:56:05	0.005
2	16 Jan	09:57:05	0.004
3	16 Jan	09:58:05	0.005
4	16 Jan	09:59:05	0.006
5	16 Jan	10:00:05	0.006
6	16 Jan	10:01:05	0.006
7	16 Jan	10:02:05	0.005
8	16 Jan	10:03:05	0.006
9	16 Jan	10:04:05	0.012
10	16 Jan	10:05:05	0.006
11	16 Jan	10:06:05	0.007
12	16 Jan	10:07:05	0.006
13	16 Jan	10:08:05	0.007
14	16 Jan	10:09:05	0.007
15	16 Jan	10:10:05	0.012
16	16 Jan	10:11:05	0.006
17	16 Jan	10:12:05	0.006
18	16 Jan	10:13:05	0.006
19	16 Jan	10:14:05	0.006
20	16 Jan	10:15:05	0.006
21	16 Jan	10:16:05	0.007
22	16 Jan	10:17:05	0.006
23	16 Jan	10:18:05	0.007
24	16 Jan	10:19:05	0.008
25	16 Jan	10:20:05	0.008
26	16 Jan	10:21:05	0.007
27	16 Jan	10:22:05	0.008
28	16 Jan	10:23:05	0.008
29	16 Jan	10:24:05	0.007
30	16 Jan	10:25:05	0.008
31	16 Jan	10:26:05	0.006
32	16 Jan	10:27:05	0.006
33	16 Jan	10:28:05	0.007
34	16 Jan	10:29:05	0.007
35	16 Jan	10:30:05	0.007
36	16 Jan	10:31:05	0.008
37	16 Jan	10:32:05	0.007
38	16 Jan	10:33:05	0.007
39	16 Jan	10:34:05	0.007
40	16 Jan	10:35:05	0.007
41	16 Jan	10:36:05	0.007
42	16 Jan	10:37:05	0.006
43	16 Jan	10:38:05	0.007
44	16 Jan	10:39:05	0.007
45	16 Jan	10:40:05	0.006
46	16 Jan	10:41:05	0.009
47	16 Jan	10:42:05	0.008
48	16 Jan	10:43:05	0.008
49	16 Jan	10:44:05	0.007
50	16 Jan	10:45:05	0.006
51	16 Jan	10:46:05	0.008
52	16 Jan	10:47:05	0.008
53	16 Jan	10:48:05	0.007
54	16 Jan	10:49:05	0.008
55	16 Jan	10:50:05	0.007
56	16 Jan	10:51:05	0.010
57	16 Jan	10:52:05	0.007

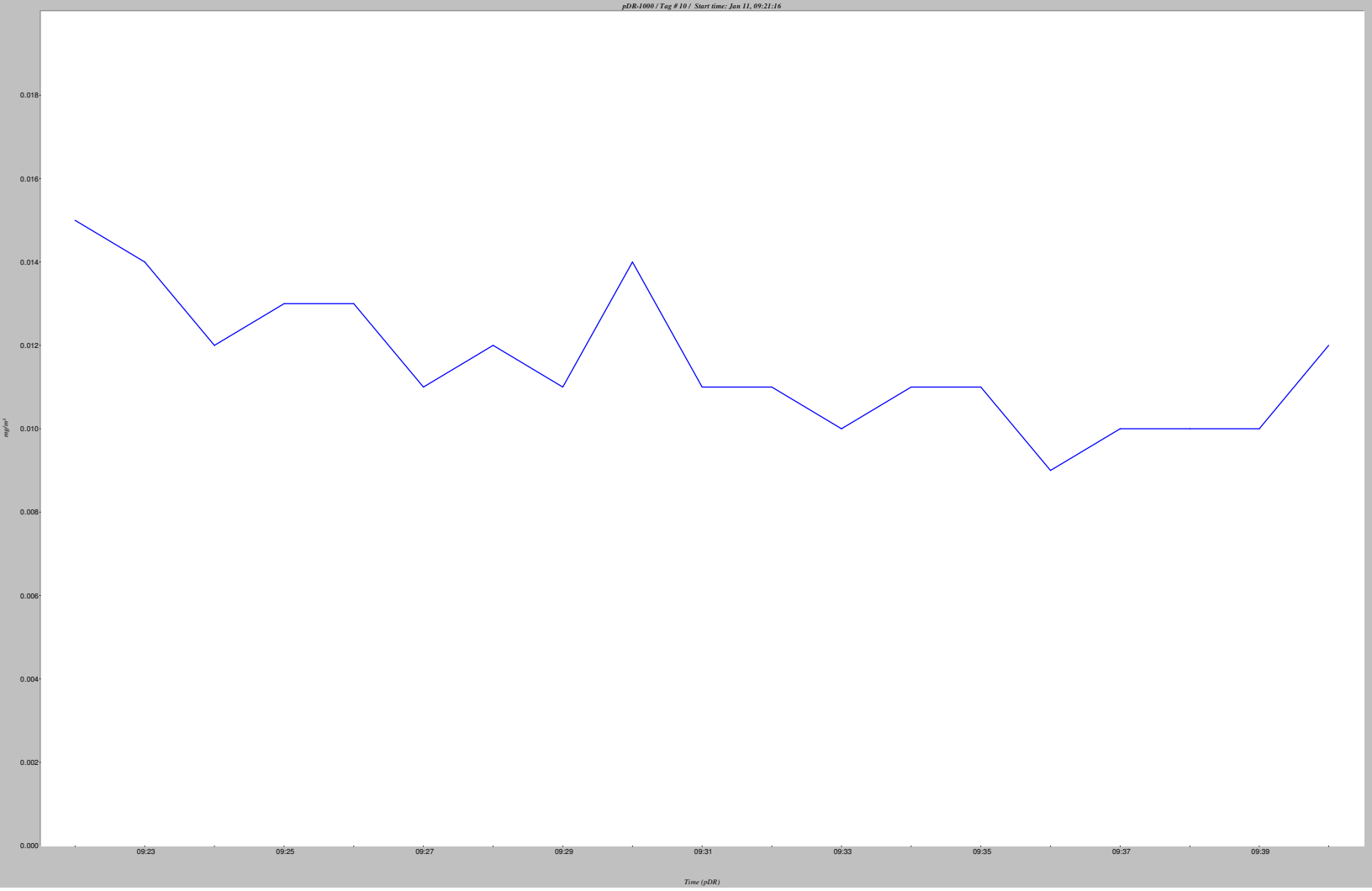
58, 16 Jan, 10:53:05, 0.007
59, 16 Jan, 10:54:05, 0.007


pDR-1000 / Tag # 09 / Start time: Jan 11, 08:10:05
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
08:20
08:30
08:40
08:50
09:00
09:10
09:20
Time (pDR)

pDR-1000
Tag Number: 09
Number of logged points: 63
Start time and date: 08:10:05 11-Jan
Elapsed time: 01:03:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.078 mg/m³
Time at maximum: 08:49:30 Jan 11
Max STEL Concentration: 0.027 mg/m³
Time at max STEL: 08:49:35 Jan 11
Overall Avg Conc: 0.023 mg/m³
Logged Data:

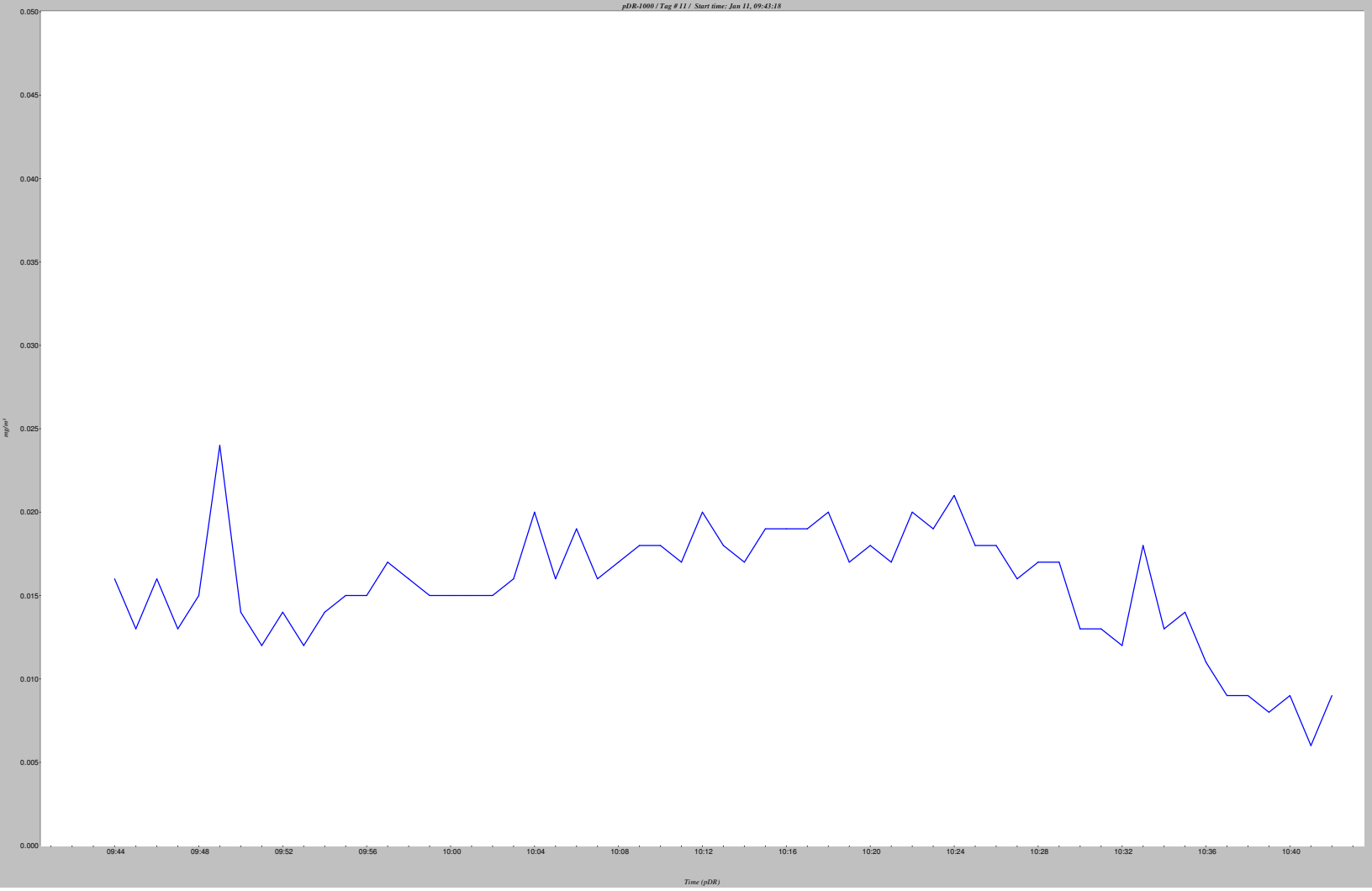
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	08:11:05	0.025
2	11 Jan	08:12:05	0.021
3	11 Jan	08:13:05	0.023
4	11 Jan	08:14:05	0.022
5	11 Jan	08:15:05	0.019
6	11 Jan	08:16:05	0.021
7	11 Jan	08:17:05	0.020
8	11 Jan	08:18:05	0.020
9	11 Jan	08:19:05	0.021
10	11 Jan	08:20:05	0.025
11	11 Jan	08:21:05	0.021
12	11 Jan	08:22:05	0.023
13	11 Jan	08:23:05	0.024
14	11 Jan	08:24:05	0.027
15	11 Jan	08:25:05	0.027
16	11 Jan	08:26:05	0.025
17	11 Jan	08:27:05	0.026
18	11 Jan	08:28:05	0.025
19	11 Jan	08:29:05	0.023
20	11 Jan	08:30:05	0.022
21	11 Jan	08:31:05	0.024
22	11 Jan	08:32:05	0.024
23	11 Jan	08:33:05	0.025
24	11 Jan	08:34:05	0.023
25	11 Jan	08:35:05	0.024
26	11 Jan	08:36:05	0.023
27	11 Jan	08:37:05	0.024
28	11 Jan	08:38:05	0.026
29	11 Jan	08:39:05	0.027
30	11 Jan	08:40:05	0.032
31	11 Jan	08:41:05	0.031
32	11 Jan	08:42:05	0.026
33	11 Jan	08:43:05	0.024
34	11 Jan	08:44:05	0.026
35	11 Jan	08:45:05	0.025
36	11 Jan	08:46:05	0.027
37	11 Jan	08:47:05	0.025
38	11 Jan	08:48:05	0.024
39	11 Jan	08:49:05	0.024
40	11 Jan	08:50:05	0.036
41	11 Jan	08:51:05	0.031
42	11 Jan	08:52:05	0.025
43	11 Jan	08:53:05	0.021
44	11 Jan	08:54:05	0.020
45	11 Jan	08:55:05	0.020
46	11 Jan	08:56:05	0.019
47	11 Jan	08:57:05	0.021
48	11 Jan	08:58:05	0.021
49	11 Jan	08:59:05	0.019
50	11 Jan	09:00:05	0.019
51	11 Jan	09:01:05	0.020
52	11 Jan	09:02:05	0.024
53	11 Jan	09:03:05	0.023
54	11 Jan	09:04:05	0.020
55	11 Jan	09:05:05	0.023
56	11 Jan	09:06:05	0.026
57	11 Jan	09:07:05	0.021

58, 11 Jan, 09:08:05, 0.021
59, 11 Jan, 09:09:05, 0.020
60, 11 Jan, 09:10:05, 0.020
61, 11 Jan, 09:11:05, 0.018
62, 11 Jan, 09:12:05, 0.018
63, 11 Jan, 09:13:05, 0.018


pDR-1000 / Tag # 10 / Start time: Jan 11, 09:21:16
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
09:23
09:25
09:27
09:29
09:31
09:33
09:35
09:37
09:39
Time (pDR)

pDR-1000
Tag Number: 10
Number of logged points: 19
Start time and date: 09:21:16 11-Jan
Elapsed time: 00:19:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.027 mg/m³
Time at maximum: 09:29:21 Jan 11
Max STEL Concentration: 0.012 mg/m³
Time at max STEL: 09:36:17 Jan 11
Overall Avg Conc: 0.011 mg/m³
Logged Data:

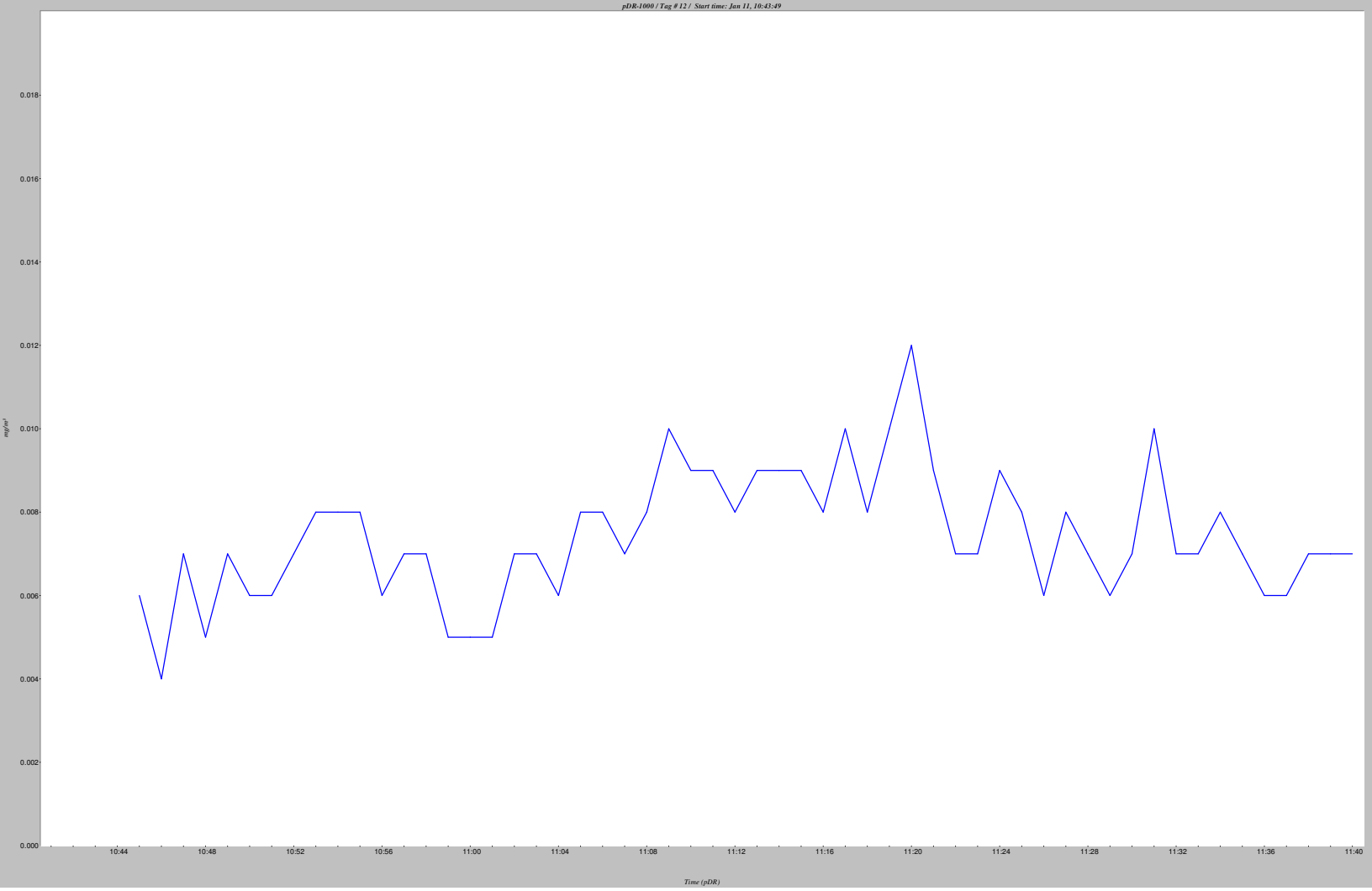
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	09:22:16	0.015
2	11 Jan	09:23:16	0.014
3	11 Jan	09:24:16	0.012
4	11 Jan	09:25:16	0.013
5	11 Jan	09:26:16	0.013
6	11 Jan	09:27:16	0.011
7	11 Jan	09:28:16	0.012
8	11 Jan	09:29:16	0.011
9	11 Jan	09:30:16	0.014
10	11 Jan	09:31:16	0.011
11	11 Jan	09:32:16	0.011
12	11 Jan	09:33:16	0.010
13	11 Jan	09:34:16	0.011
14	11 Jan	09:35:16	0.011
15	11 Jan	09:36:16	0.009
16	11 Jan	09:37:16	0.010
17	11 Jan	09:38:16	0.010
18	11 Jan	09:39:16	0.010
19	11 Jan	09:40:16	0.012


pDR-1000 / Tag # 11 / Start time: Jan 11, 09:43:18
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:44
09:48
09:52
09:56
10:00
10:04
10:08
10:12
10:16
10:20
10:24
10:28
10:32
10:36
10:40
Time (pDR)

pDR-1000
Tag Number: 11
Number of logged points: 59
Start time and date: 09:43:18 11-Jan
Elapsed time: 00:59:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.078 mg/m³
Time at maximum: 09:48:35 Jan 11
Max STEL Concentration: 0.019 mg/m³
Time at max STEL: 10:23:18 Jan 11
Overall Avg Conc: 0.016 mg/m³
Logged Data:

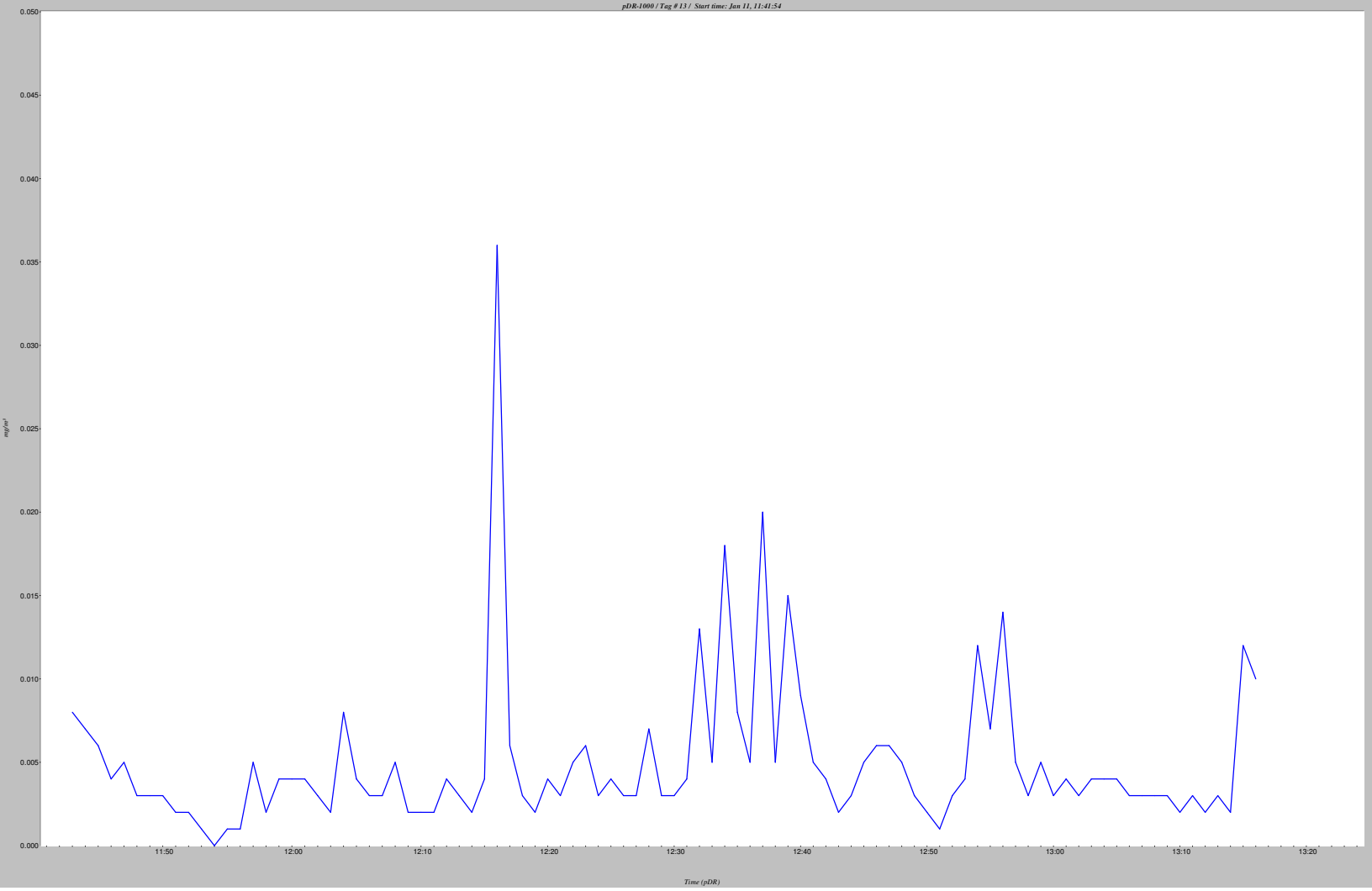
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	09:44:18	0.016
2	11 Jan	09:45:18	0.013
3	11 Jan	09:46:18	0.016
4	11 Jan	09:47:18	0.013
5	11 Jan	09:48:18	0.015
6	11 Jan	09:49:18	0.024
7	11 Jan	09:50:18	0.014
8	11 Jan	09:51:18	0.012
9	11 Jan	09:52:18	0.014
10	11 Jan	09:53:18	0.012
11	11 Jan	09:54:18	0.014
12	11 Jan	09:55:18	0.015
13	11 Jan	09:56:18	0.015
14	11 Jan	09:57:18	0.017
15	11 Jan	09:58:18	0.016
16	11 Jan	09:59:18	0.015
17	11 Jan	10:00:18	0.015
18	11 Jan	10:01:18	0.015
19	11 Jan	10:02:18	0.015
20	11 Jan	10:03:18	0.016
21	11 Jan	10:04:18	0.020
22	11 Jan	10:05:18	0.016
23	11 Jan	10:06:18	0.019
24	11 Jan	10:07:18	0.016
25	11 Jan	10:08:18	0.017
26	11 Jan	10:09:18	0.018
27	11 Jan	10:10:18	0.018
28	11 Jan	10:11:18	0.017
29	11 Jan	10:12:18	0.020
30	11 Jan	10:13:18	0.018
31	11 Jan	10:14:18	0.017
32	11 Jan	10:15:18	0.019
33	11 Jan	10:16:18	0.019
34	11 Jan	10:17:18	0.019
35	11 Jan	10:18:18	0.020
36	11 Jan	10:19:18	0.017
37	11 Jan	10:20:18	0.018
38	11 Jan	10:21:18	0.017
39	11 Jan	10:22:18	0.020
40	11 Jan	10:23:18	0.019
41	11 Jan	10:24:18	0.021
42	11 Jan	10:25:18	0.018
43	11 Jan	10:26:18	0.018
44	11 Jan	10:27:18	0.016
45	11 Jan	10:28:18	0.017
46	11 Jan	10:29:18	0.017
47	11 Jan	10:30:18	0.013
48	11 Jan	10:31:18	0.013
49	11 Jan	10:32:18	0.012
50	11 Jan	10:33:18	0.018
51	11 Jan	10:34:18	0.013
52	11 Jan	10:35:18	0.014
53	11 Jan	10:36:18	0.011
54	11 Jan	10:37:18	0.009
55	11 Jan	10:38:18	0.009
56	11 Jan	10:39:18	0.008
57	11 Jan	10:40:18	0.009

58, 11 Jan, 10:41:18, 0.006
59, 11 Jan, 10:42:18, 0.009


pDR-1000 / Tag # 12 / Start time: Jan 11, 10:43:49
mg/m³
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10:44
10:48
10:52
10:56
11:00
11:04
11:08
11:12
11:16
11:20
11:24
11:28
11:32
11:36
11:40
Time (pDR)

pDR-1000
Tag Number: 12
Number of logged points: 56
Start time and date: 10:43:49 11-Jan
Elapsed time: 00:56:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.027 mg/m³
Time at maximum: 11:40:09 Jan 11
Max STEL Concentration: 0.009 mg/m³
Time at max STEL: 11:18:19 Jan 11
Overall Avg Conc: 0.007 mg/m³
Logged Data:

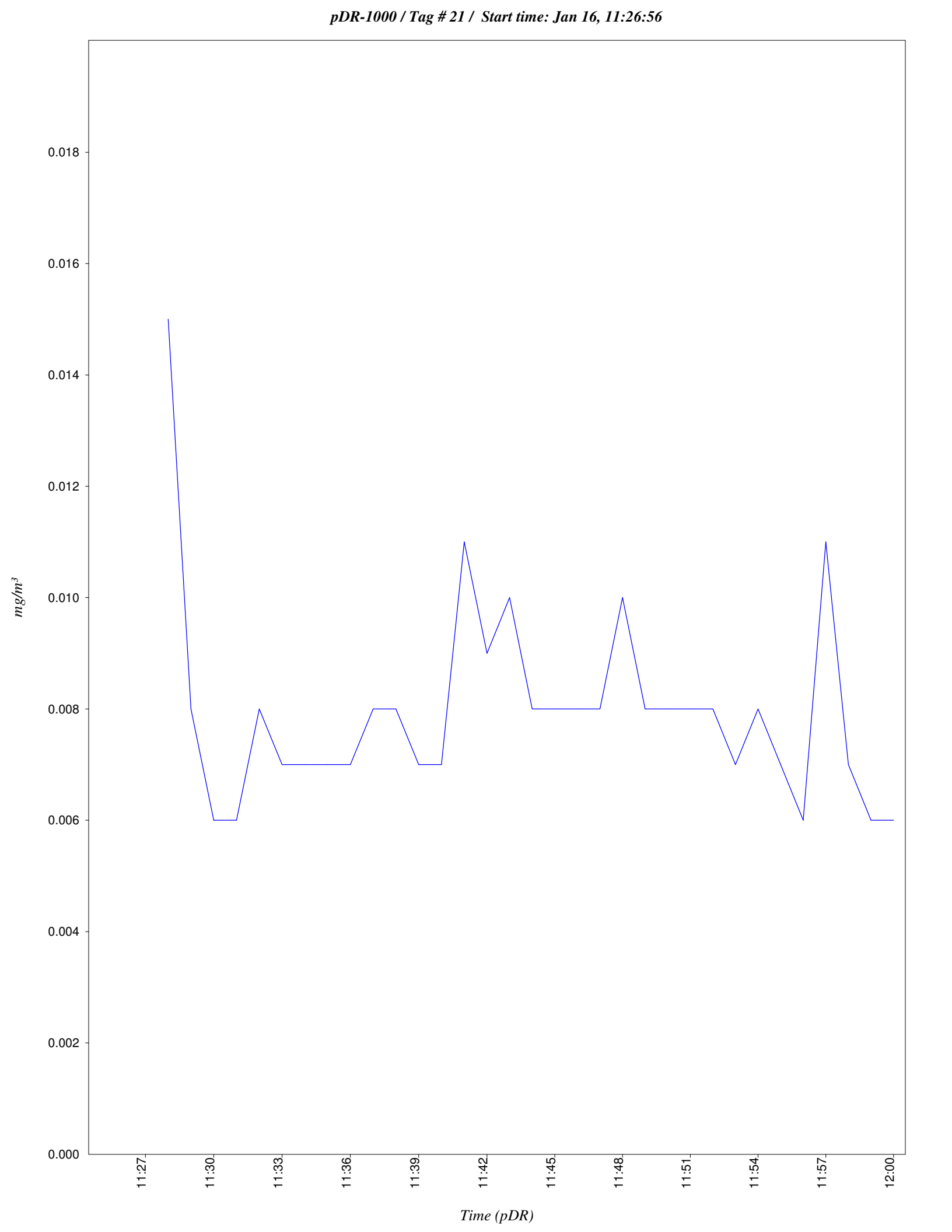
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	10:44:49	0.006
2	11 Jan	10:45:49	0.004
3	11 Jan	10:46:49	0.007
4	11 Jan	10:47:49	0.005
5	11 Jan	10:48:49	0.007
6	11 Jan	10:49:49	0.006
7	11 Jan	10:50:49	0.006
8	11 Jan	10:51:49	0.007
9	11 Jan	10:52:49	0.008
10	11 Jan	10:53:49	0.008
11	11 Jan	10:54:49	0.008
12	11 Jan	10:55:49	0.006
13	11 Jan	10:56:49	0.007
14	11 Jan	10:57:49	0.007
15	11 Jan	10:58:49	0.005
16	11 Jan	10:59:49	0.005
17	11 Jan	11:00:49	0.005
18	11 Jan	11:01:49	0.007
19	11 Jan	11:02:49	0.007
20	11 Jan	11:03:49	0.006
21	11 Jan	11:04:49	0.008
22	11 Jan	11:05:49	0.008
23	11 Jan	11:06:49	0.007
24	11 Jan	11:07:49	0.008
25	11 Jan	11:08:49	0.010
26	11 Jan	11:09:49	0.009
27	11 Jan	11:10:49	0.009
28	11 Jan	11:11:49	0.008
29	11 Jan	11:12:49	0.009
30	11 Jan	11:13:49	0.009
31	11 Jan	11:14:49	0.009
32	11 Jan	11:15:49	0.008
33	11 Jan	11:16:49	0.010
34	11 Jan	11:17:49	0.008
35	11 Jan	11:18:49	0.010
36	11 Jan	11:19:49	0.012
37	11 Jan	11:20:49	0.009
38	11 Jan	11:21:49	0.007
39	11 Jan	11:22:49	0.007
40	11 Jan	11:23:49	0.009
41	11 Jan	11:24:49	0.008
42	11 Jan	11:25:49	0.006
43	11 Jan	11:26:49	0.008
44	11 Jan	11:27:49	0.007
45	11 Jan	11:28:49	0.006
46	11 Jan	11:29:49	0.007
47	11 Jan	11:30:49	0.010
48	11 Jan	11:31:49	0.007
49	11 Jan	11:32:49	0.007
50	11 Jan	11:33:49	0.008
51	11 Jan	11:34:49	0.007
52	11 Jan	11:35:49	0.006
53	11 Jan	11:36:49	0.006
54	11 Jan	11:37:49	0.007
55	11 Jan	11:38:49	0.007
56	11 Jan	11:39:49	0.007


pDR-1000 / Tag # 13 / Start time: Jan 11, 11:41:54
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
11:50
12:00
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
Time (pDR)

pDR-1000
Tag Number: 13
Number of logged points: 94
Start time and date: 11:41:54 11-Jan
Elapsed time: 01:34:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.070 mg/m³
Time at maximum: 12:15:27 Jan 11
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 12:38:54 Jan 11
Overall Avg Conc: 0.005 mg/m³
Logged Data:

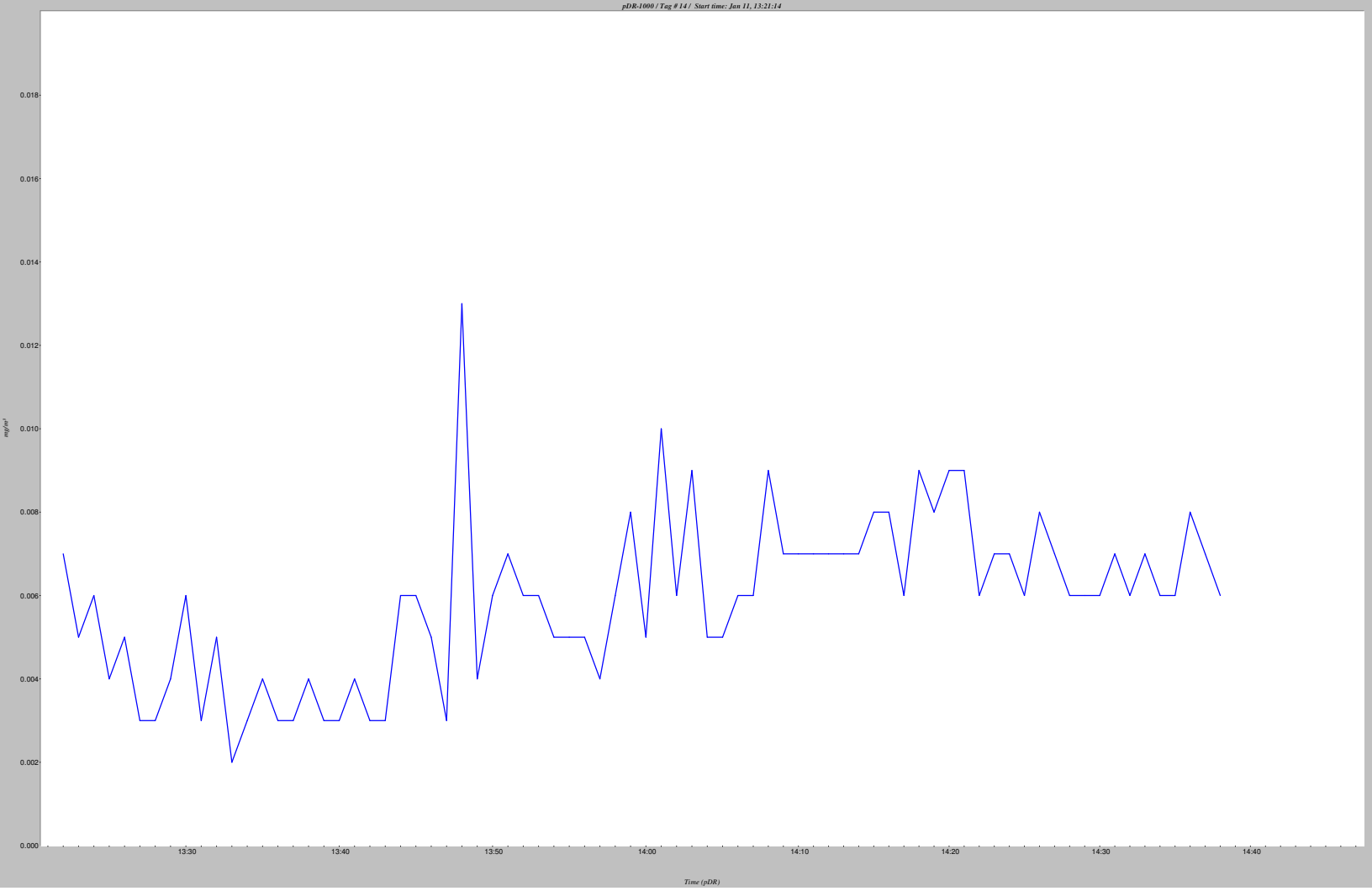
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	11:42:54	0.008
2	11 Jan	11:43:54	0.007
3	11 Jan	11:44:54	0.006
4	11 Jan	11:45:54	0.004
5	11 Jan	11:46:54	0.005
6	11 Jan	11:47:54	0.003
7	11 Jan	11:48:54	0.003
8	11 Jan	11:49:54	0.003
9	11 Jan	11:50:54	0.002
10	11 Jan	11:51:54	0.002
11	11 Jan	11:52:54	0.001
12	11 Jan	11:53:54	0.000
13	11 Jan	11:54:54	0.001
14	11 Jan	11:55:54	0.001
15	11 Jan	11:56:54	0.005
16	11 Jan	11:57:54	0.002
17	11 Jan	11:58:54	0.004
18	11 Jan	11:59:54	0.004
19	11 Jan	12:00:54	0.004
20	11 Jan	12:01:54	0.003
21	11 Jan	12:02:54	0.002
22	11 Jan	12:03:54	0.008
23	11 Jan	12:04:54	0.004
24	11 Jan	12:05:54	0.003
25	11 Jan	12:06:54	0.003
26	11 Jan	12:07:54	0.005
27	11 Jan	12:08:54	0.002
28	11 Jan	12:09:54	0.002
29	11 Jan	12:10:54	0.002
30	11 Jan	12:11:54	0.004
31	11 Jan	12:12:54	0.003
32	11 Jan	12:13:54	0.002
33	11 Jan	12:14:54	0.004
34	11 Jan	12:15:54	0.036
35	11 Jan	12:16:54	0.006
36	11 Jan	12:17:54	0.003
37	11 Jan	12:18:54	0.002
38	11 Jan	12:19:54	0.004
39	11 Jan	12:20:54	0.003
40	11 Jan	12:21:54	0.005
41	11 Jan	12:22:54	0.006
42	11 Jan	12:23:54	0.003
43	11 Jan	12:24:54	0.004
44	11 Jan	12:25:54	0.003
45	11 Jan	12:26:54	0.003
46	11 Jan	12:27:54	0.007
47	11 Jan	12:28:54	0.003
48	11 Jan	12:29:54	0.003
49	11 Jan	12:30:54	0.004
50	11 Jan	12:31:54	0.013
51	11 Jan	12:32:54	0.005
52	11 Jan	12:33:54	0.018
53	11 Jan	12:34:54	0.008
54	11 Jan	12:35:54	0.005
55	11 Jan	12:36:54	0.020
56	11 Jan	12:37:54	0.005
57	11 Jan	12:38:54	0.015

58, 11 Jan, 12:39:54, 0.009
59, 11 Jan, 12:40:54, 0.005
60, 11 Jan, 12:41:54, 0.004
61, 11 Jan, 12:42:54, 0.002
62, 11 Jan, 12:43:54, 0.003
63, 11 Jan, 12:44:54, 0.005
64, 11 Jan, 12:45:54, 0.006
65, 11 Jan, 12:46:54, 0.006
66, 11 Jan, 12:47:54, 0.005
67, 11 Jan, 12:48:54, 0.003
68, 11 Jan, 12:49:54, 0.002
69, 11 Jan, 12:50:54, 0.001
70, 11 Jan, 12:51:54, 0.003
71, 11 Jan, 12:52:54, 0.004
72, 11 Jan, 12:53:54, 0.012
73, 11 Jan, 12:54:54, 0.007
74, 11 Jan, 12:55:54, 0.014
75, 11 Jan, 12:56:54, 0.005
76, 11 Jan, 12:57:54, 0.003
77, 11 Jan, 12:58:54, 0.005
78, 11 Jan, 12:59:54, 0.003
79, 11 Jan, 13:00:54, 0.004
80, 11 Jan, 13:01:54, 0.003
81, 11 Jan, 13:02:54, 0.004
82, 11 Jan, 13:03:54, 0.004
83, 11 Jan, 13:04:54, 0.004
84, 11 Jan, 13:05:54, 0.003
85, 11 Jan, 13:06:54, 0.003
86, 11 Jan, 13:07:54, 0.003
87, 11 Jan, 13:08:54, 0.003
88, 11 Jan, 13:09:54, 0.002
89, 11 Jan, 13:10:54, 0.003
90, 11 Jan, 13:11:54, 0.002
91, 11 Jan, 13:12:54, 0.003
92, 11 Jan, 13:13:54, 0.002
93, 11 Jan, 13:14:54, 0.012
94, 11 Jan, 13:15:54, 0.010


pDR-1000 / Tag # 21 / Start time: Jan 16, 11:26:56
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
11:27
11:30
11:33
11:36
11:39
11:42
11:45
11:48
11:51
11:54
11:57
12:00
Time (pDR)

pDR-1000
Tag Number: 21
Number of logged points: 33
Start time and date: 11:26:56 16-Jan
Elapsed time: 00:33:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.063 mg/m³
Time at maximum: 11:27:59 Jan 16
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 11:41:27 Jan 16
Overall Avg Conc: 0.008 mg/m³
Logged Data:

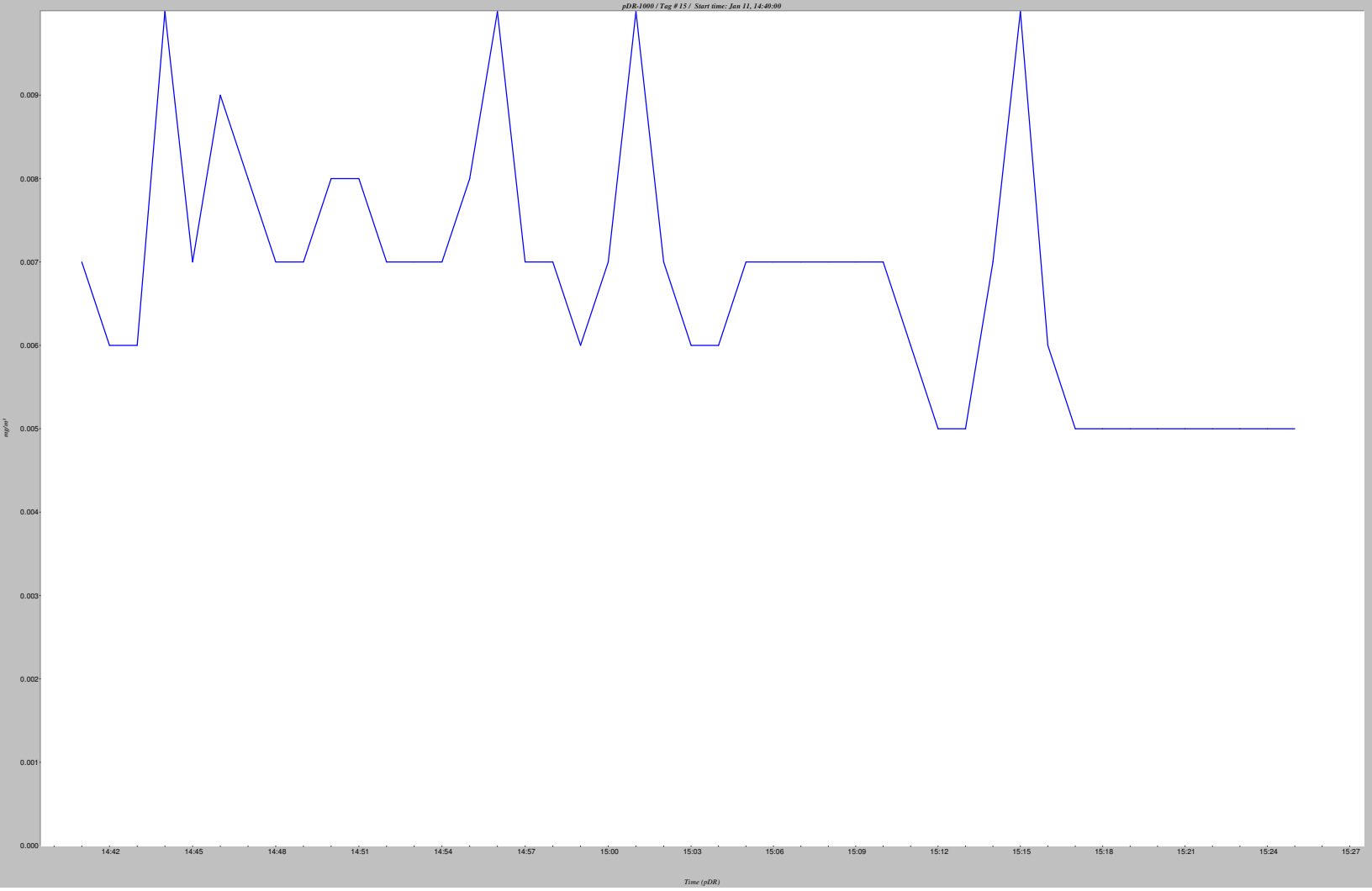
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	11:27:56	0.015
2	16 Jan	11:28:56	0.008
3	16 Jan	11:29:56	0.006
4	16 Jan	11:30:56	0.006
5	16 Jan	11:31:56	0.008
6	16 Jan	11:32:56	0.007
7	16 Jan	11:33:56	0.007
8	16 Jan	11:34:56	0.007
9	16 Jan	11:35:56	0.007
10	16 Jan	11:36:56	0.008
11	16 Jan	11:37:56	0.008
12	16 Jan	11:38:56	0.007
13	16 Jan	11:39:56	0.007
14	16 Jan	11:40:56	0.011
15	16 Jan	11:41:56	0.009
16	16 Jan	11:42:56	0.010
17	16 Jan	11:43:56	0.008
18	16 Jan	11:44:56	0.008
19	16 Jan	11:45:56	0.008
20	16 Jan	11:46:56	0.008
21	16 Jan	11:47:56	0.010
22	16 Jan	11:48:56	0.008
23	16 Jan	11:49:56	0.008
24	16 Jan	11:50:56	0.008
25	16 Jan	11:51:56	0.008
26	16 Jan	11:52:56	0.007
27	16 Jan	11:53:56	0.008
28	16 Jan	11:54:56	0.007
29	16 Jan	11:55:56	0.006
30	16 Jan	11:56:56	0.011
31	16 Jan	11:57:56	0.007
32	16 Jan	11:58:56	0.006
33	16 Jan	11:59:56	0.006


pDR-1000 / Tag # 14 / Start time: Jan 11, 13:21:14
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
13:30
13:40
13:50
14:00
14:10
14:20
14:30
14:40
Time (pDR)

pDR-1000
Tag Number: 14
Number of logged points: 77
Start time and date: 13:21:14 11-Jan
Elapsed time: 01:17:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.053 mg/m³
Time at maximum: 13:47:51 Jan 11
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 14:20:44 Jan 11
Overall Avg Conc: 0.006 mg/m³
Logged Data:

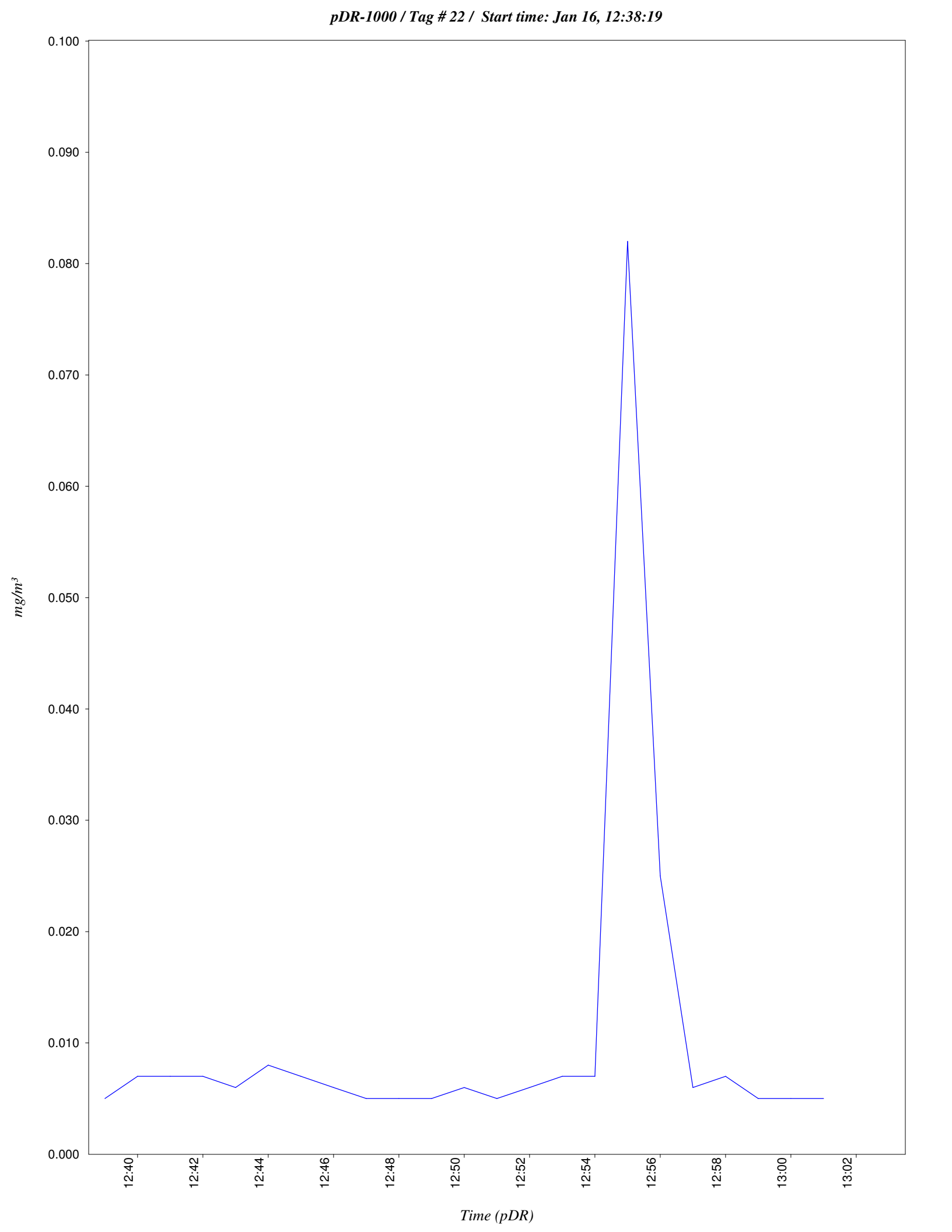
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	13:22:14	0.007
2	11 Jan	13:23:14	0.005
3	11 Jan	13:24:14	0.006
4	11 Jan	13:25:14	0.004
5	11 Jan	13:26:14	0.005
6	11 Jan	13:27:14	0.003
7	11 Jan	13:28:14	0.003
8	11 Jan	13:29:14	0.004
9	11 Jan	13:30:14	0.006
10	11 Jan	13:31:14	0.003
11	11 Jan	13:32:14	0.005
12	11 Jan	13:33:14	0.002
13	11 Jan	13:34:14	0.003
14	11 Jan	13:35:14	0.004
15	11 Jan	13:36:14	0.003
16	11 Jan	13:37:14	0.003
17	11 Jan	13:38:14	0.004
18	11 Jan	13:39:14	0.003
19	11 Jan	13:40:14	0.003
20	11 Jan	13:41:14	0.004
21	11 Jan	13:42:14	0.003
22	11 Jan	13:43:14	0.003
23	11 Jan	13:44:14	0.006
24	11 Jan	13:45:14	0.006
25	11 Jan	13:46:14	0.005
26	11 Jan	13:47:14	0.003
27	11 Jan	13:48:14	0.013
28	11 Jan	13:49:14	0.004
29	11 Jan	13:50:14	0.006
30	11 Jan	13:51:14	0.007
31	11 Jan	13:52:14	0.006
32	11 Jan	13:53:14	0.006
33	11 Jan	13:54:14	0.005
34	11 Jan	13:55:14	0.005
35	11 Jan	13:56:14	0.005
36	11 Jan	13:57:14	0.004
37	11 Jan	13:58:14	0.006
38	11 Jan	13:59:14	0.008
39	11 Jan	14:00:14	0.005
40	11 Jan	14:01:14	0.010
41	11 Jan	14:02:14	0.006
42	11 Jan	14:03:14	0.009
43	11 Jan	14:04:14	0.005
44	11 Jan	14:05:14	0.005
45	11 Jan	14:06:14	0.006
46	11 Jan	14:07:14	0.006
47	11 Jan	14:08:14	0.009
48	11 Jan	14:09:14	0.007
49	11 Jan	14:10:14	0.007
50	11 Jan	14:11:14	0.007
51	11 Jan	14:12:14	0.007
52	11 Jan	14:13:14	0.007
53	11 Jan	14:14:14	0.007
54	11 Jan	14:15:14	0.008
55	11 Jan	14:16:14	0.008
56	11 Jan	14:17:14	0.006
57	11 Jan	14:18:14	0.009

58, 11 Jan, 14:19:14, 0.008
59, 11 Jan, 14:20:14, 0.009
60, 11 Jan, 14:21:14, 0.009
61, 11 Jan, 14:22:14, 0.006
62, 11 Jan, 14:23:14, 0.007
63, 11 Jan, 14:24:14, 0.007
64, 11 Jan, 14:25:14, 0.006
65, 11 Jan, 14:26:14, 0.008
66, 11 Jan, 14:27:14, 0.007
67, 11 Jan, 14:28:14, 0.006
68, 11 Jan, 14:29:14, 0.006
69, 11 Jan, 14:30:14, 0.006
70, 11 Jan, 14:31:14, 0.007
71, 11 Jan, 14:32:14, 0.006
72, 11 Jan, 14:33:14, 0.007
73, 11 Jan, 14:34:14, 0.006
74, 11 Jan, 14:35:14, 0.006
75, 11 Jan, 14:36:14, 0.008
76, 11 Jan, 14:37:14, 0.007
77, 11 Jan, 14:38:14, 0.006


pDR-1000 / Tag # 15 / Start time: Jan 11, 14:40:00
mg/m³
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
14:42
14:45
14:48
14:51
14:54
14:57
15:00
15:03
15:06
15:09
15:12
15:15
15:18
15:21
15:24
15:27
Time (pDR)

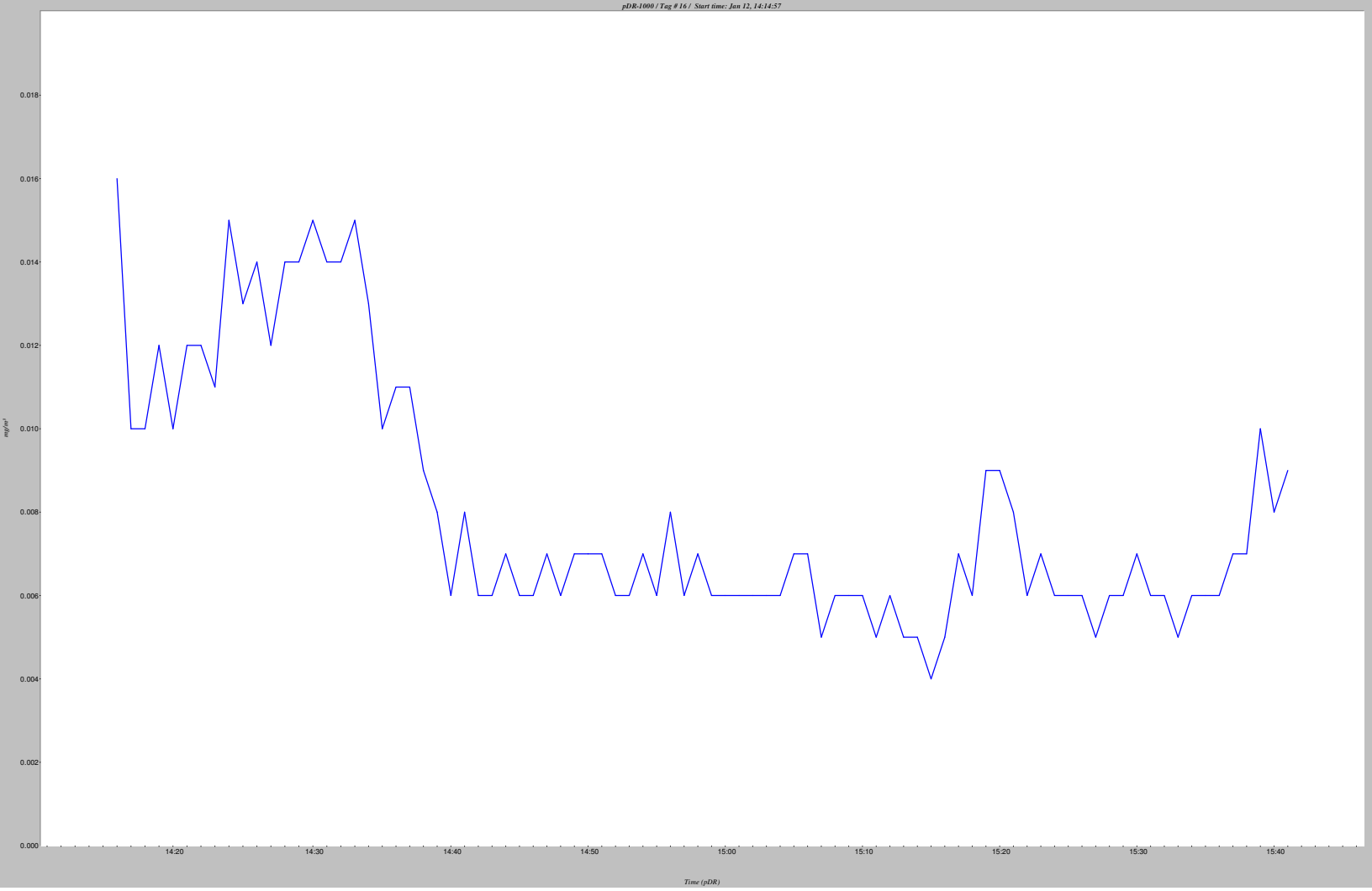
pDR-1000
Tag Number: 15
Number of logged points: 45
Start time and date: 14:40:00 11-Jan
Elapsed time: 00:45:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.027 mg/m³
Time at maximum: 14:55:52 Jan 11
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 14:55:00 Jan 11
Overall Avg Conc: 0.007 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	11 Jan	14:41:00	0.007
2	11 Jan	14:42:00	0.006
3	11 Jan	14:43:00	0.006
4	11 Jan	14:44:00	0.010
5	11 Jan	14:45:00	0.007
6	11 Jan	14:46:00	0.009
7	11 Jan	14:47:00	0.008
8	11 Jan	14:48:00	0.007
9	11 Jan	14:49:00	0.007
10	11 Jan	14:50:00	0.008
11	11 Jan	14:51:00	0.008
12	11 Jan	14:52:00	0.007
13	11 Jan	14:53:00	0.007
14	11 Jan	14:54:00	0.007
15	11 Jan	14:55:00	0.008
16	11 Jan	14:56:00	0.010
17	11 Jan	14:57:00	0.007
18	11 Jan	14:58:00	0.007
19	11 Jan	14:59:00	0.006
20	11 Jan	15:00:00	0.007
21	11 Jan	15:01:00	0.010
22	11 Jan	15:02:00	0.007
23	11 Jan	15:03:00	0.006
24	11 Jan	15:04:00	0.006
25	11 Jan	15:05:00	0.007
26	11 Jan	15:06:00	0.007
27	11 Jan	15:07:00	0.007
28	11 Jan	15:08:00	0.007
29	11 Jan	15:09:00	0.007
30	11 Jan	15:10:00	0.007
31	11 Jan	15:11:00	0.006
32	11 Jan	15:12:00	0.005
33	11 Jan	15:13:00	0.005
34	11 Jan	15:14:00	0.007
35	11 Jan	15:15:00	0.010
36	11 Jan	15:16:00	0.006
37	11 Jan	15:17:00	0.005
38	11 Jan	15:18:00	0.005
39	11 Jan	15:19:00	0.005
40	11 Jan	15:20:00	0.005
41	11 Jan	15:21:00	0.005
42	11 Jan	15:22:00	0.005
43	11 Jan	15:23:00	0.005
44	11 Jan	15:24:00	0.005
45	11 Jan	15:25:00	0.005


pDR-1000 / Tag # 22 / Start time: Jan 16, 12:38:19
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
12:40
12:42
12:44
12:46
12:48
12:50
12:52
12:54
12:56
12:58
13:00
13:02
Time (pDR)

pDR-1000
Tag Number: 22
Number of logged points: 23
Start time and date: 12:38:19 16-Jan
Elapsed time: 00:23:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.418 mg/m³
Time at maximum: 12:55:09 Jan 16
Max STEL Concentration: 0.012 mg/m³
Time at max STEL: 12:55:49 Jan 16
Overall Avg Conc: 0.010 mg/m³
Logged Data:

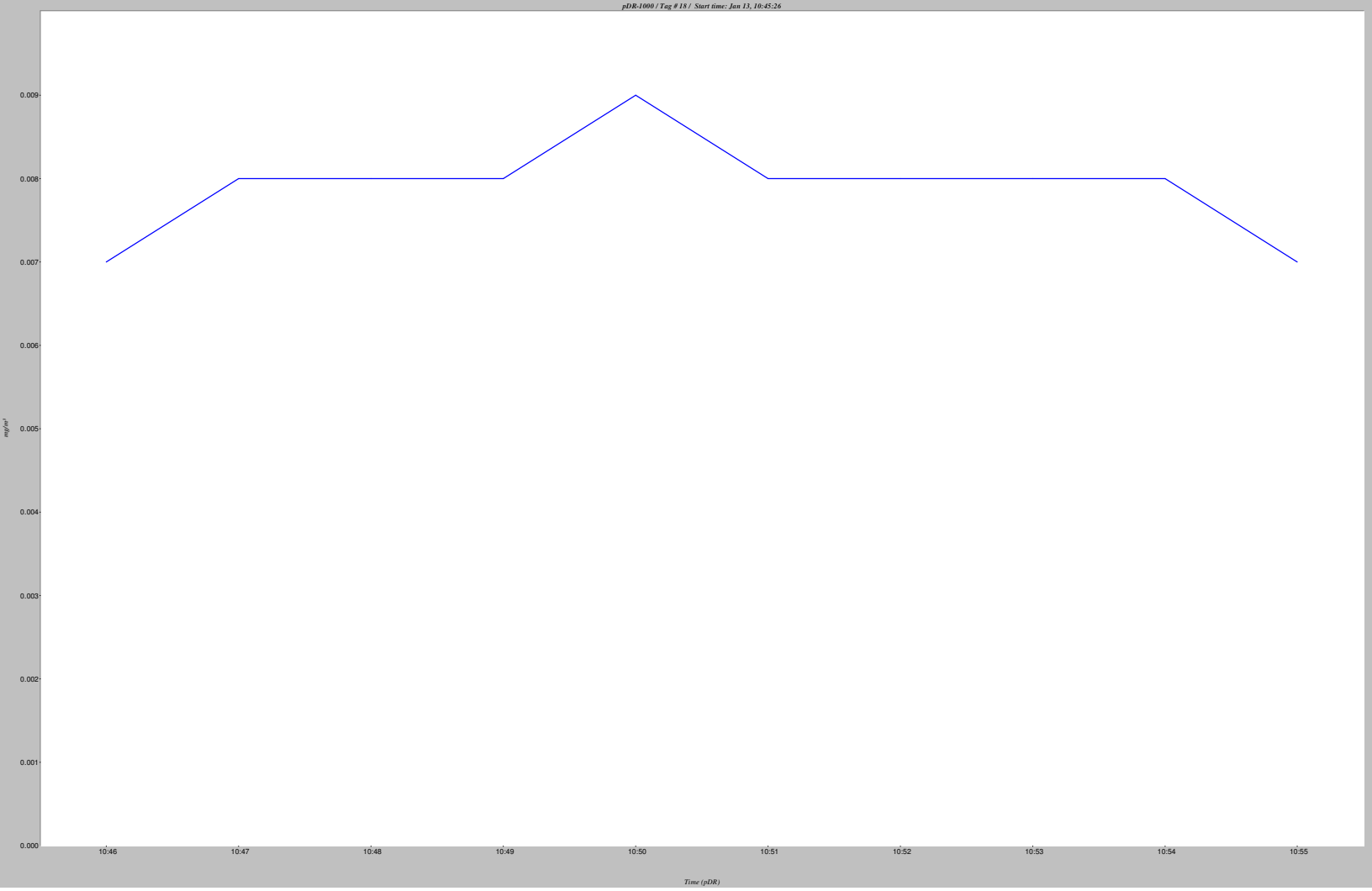
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	12:39:19	0.005
2	16 Jan	12:40:19	0.007
3	16 Jan	12:41:19	0.007
4	16 Jan	12:42:19	0.007
5	16 Jan	12:43:19	0.006
6	16 Jan	12:44:19	0.008
7	16 Jan	12:45:19	0.007
8	16 Jan	12:46:19	0.006
9	16 Jan	12:47:19	0.005
10	16 Jan	12:48:19	0.005
11	16 Jan	12:49:19	0.005
12	16 Jan	12:50:19	0.006
13	16 Jan	12:51:19	0.005
14	16 Jan	12:52:19	0.006
15	16 Jan	12:53:19	0.007
16	16 Jan	12:54:19	0.007
17	16 Jan	12:55:19	0.082
18	16 Jan	12:56:19	0.025
19	16 Jan	12:57:19	0.006
20	16 Jan	12:58:19	0.007
21	16 Jan	12:59:19	0.005
22	16 Jan	13:00:19	0.005
23	16 Jan	13:01:19	0.005


pDR-1000 / Tag # 16 / Start time: Jan 12, 14:14:57
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
15:40
Time (pDR)

pDR-1000
Tag Number: 16
Number of logged points: 86
Start time and date: 14:14:57 12-Jan
Elapsed time: 01:26:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.031 mg/m³
Time at maximum: 14:15:14 Jan 12
Max STEL Concentration: 0.013 mg/m³
Time at max STEL: 14:29:57 Jan 12
Overall Avg Conc: 0.008 mg/m³
Logged Data:

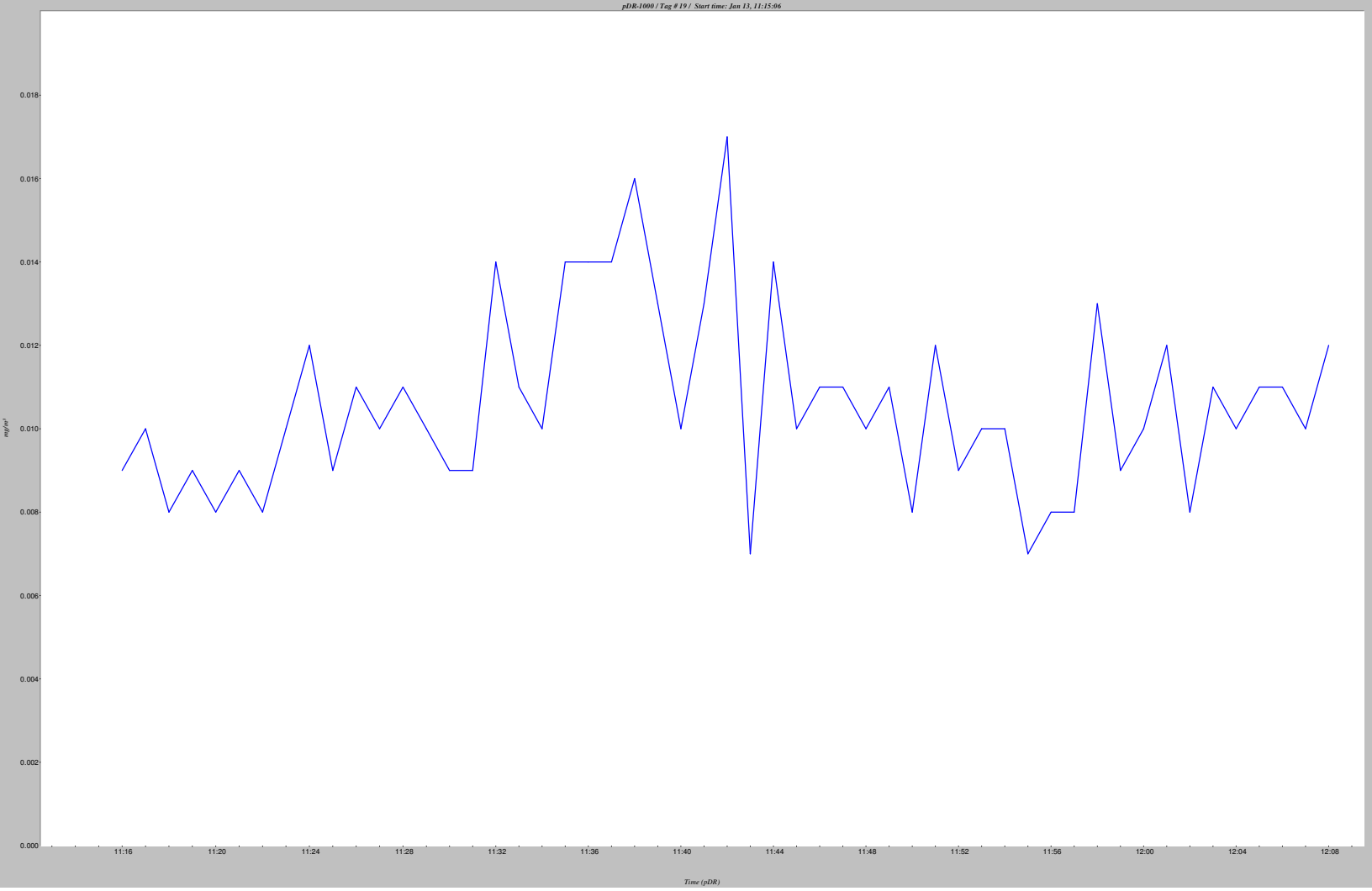
Point	Date	Time	Avg.(mg/m³)
1	12 Jan	14:15:57	0.016
2	12 Jan	14:16:57	0.010
3	12 Jan	14:17:57	0.010
4	12 Jan	14:18:57	0.012
5	12 Jan	14:19:57	0.010
6	12 Jan	14:20:57	0.012
7	12 Jan	14:21:57	0.012
8	12 Jan	14:22:57	0.011
9	12 Jan	14:23:57	0.015
10	12 Jan	14:24:57	0.013
11	12 Jan	14:25:57	0.014
12	12 Jan	14:26:57	0.012
13	12 Jan	14:27:57	0.014
14	12 Jan	14:28:57	0.014
15	12 Jan	14:29:57	0.015
16	12 Jan	14:30:57	0.014
17	12 Jan	14:31:57	0.014
18	12 Jan	14:32:57	0.015
19	12 Jan	14:33:57	0.013
20	12 Jan	14:34:57	0.010
21	12 Jan	14:35:57	0.011
22	12 Jan	14:36:57	0.011
23	12 Jan	14:37:57	0.009
24	12 Jan	14:38:57	0.008
25	12 Jan	14:39:57	0.006
26	12 Jan	14:40:57	0.008
27	12 Jan	14:41:57	0.006
28	12 Jan	14:42:57	0.006
29	12 Jan	14:43:57	0.007
30	12 Jan	14:44:57	0.006
31	12 Jan	14:45:57	0.006
32	12 Jan	14:46:57	0.007
33	12 Jan	14:47:57	0.006
34	12 Jan	14:48:57	0.007
35	12 Jan	14:49:57	0.007
36	12 Jan	14:50:57	0.007
37	12 Jan	14:51:57	0.006
38	12 Jan	14:52:57	0.006
39	12 Jan	14:53:57	0.007
40	12 Jan	14:54:57	0.006
41	12 Jan	14:55:57	0.008
42	12 Jan	14:56:57	0.006
43	12 Jan	14:57:57	0.007
44	12 Jan	14:58:57	0.006
45	12 Jan	14:59:57	0.006
46	12 Jan	15:00:57	0.006
47	12 Jan	15:01:57	0.006
48	12 Jan	15:02:57	0.006
49	12 Jan	15:03:57	0.006
50	12 Jan	15:04:57	0.007
51	12 Jan	15:05:57	0.007
52	12 Jan	15:06:57	0.005
53	12 Jan	15:07:57	0.006
54	12 Jan	15:08:57	0.006
55	12 Jan	15:09:57	0.006
56	12 Jan	15:10:57	0.005
57	12 Jan	15:11:57	0.006

58, 12 Jan, 15:12:57, 0.005
59, 12 Jan, 15:13:57, 0.005
60, 12 Jan, 15:14:57, 0.004
61, 12 Jan, 15:15:57, 0.005
62, 12 Jan, 15:16:57, 0.007
63, 12 Jan, 15:17:57, 0.006
64, 12 Jan, 15:18:57, 0.009
65, 12 Jan, 15:19:57, 0.009
66, 12 Jan, 15:20:57, 0.008
67, 12 Jan, 15:21:57, 0.006
68, 12 Jan, 15:22:57, 0.007
69, 12 Jan, 15:23:57, 0.006
70, 12 Jan, 15:24:57, 0.006
71, 12 Jan, 15:25:57, 0.006
72, 12 Jan, 15:26:57, 0.005
73, 12 Jan, 15:27:57, 0.006
74, 12 Jan, 15:28:57, 0.006
75, 12 Jan, 15:29:57, 0.007
76, 12 Jan, 15:30:57, 0.006
77, 12 Jan, 15:31:57, 0.006
78, 12 Jan, 15:32:57, 0.005
79, 12 Jan, 15:33:57, 0.006
80, 12 Jan, 15:34:57, 0.006
81, 12 Jan, 15:35:57, 0.006
82, 12 Jan, 15:36:57, 0.007
83, 12 Jan, 15:37:57, 0.007
84, 12 Jan, 15:38:57, 0.010
85, 12 Jan, 15:39:57, 0.008
86, 12 Jan, 15:40:57, 0.009


pDR-1000 / Tag # 18 / Start time: Jan 13, 10:45:26
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
mg/m³
10:46
10:47
10:48
10:49
10:50
10:51
10:52
10:53
10:54
10:55
Time (pDR)

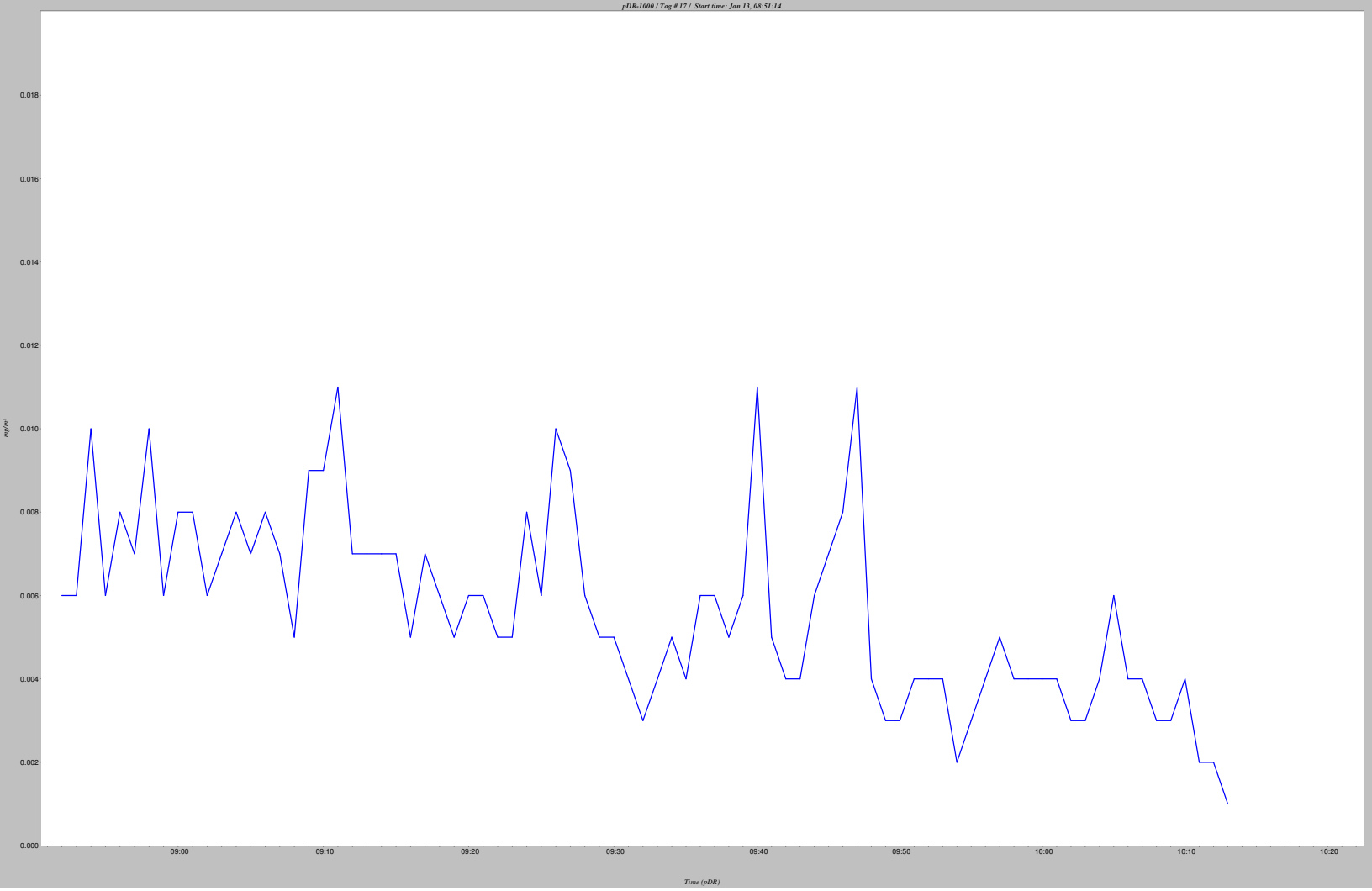
pDR-1000
Tag Number: 18
Number of logged points: 10
Start time and date: 10:45:26 13-Jan
Elapsed time: 00:10:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.023 mg/m³
Time at maximum: 10:45:28 Jan 13
Max STEL Concentration: 0.005 mg/m³
Time at max STEL: 10:53:56 Jan 13
Overall Avg Conc: 0.008 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	10:46:26	0.007
2	13 Jan	10:47:26	0.008
3	13 Jan	10:48:26	0.008
4	13 Jan	10:49:26	0.008
5	13 Jan	10:50:26	0.009
6	13 Jan	10:51:26	0.008
7	13 Jan	10:52:26	0.008
8	13 Jan	10:53:26	0.008
9	13 Jan	10:54:26	0.008
10	13 Jan	10:55:26	0.007


pDR-1000 / Tag # 19 / Start time: Jan 13, 11:15:06
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
11:16
11:20
11:24
11:28
11:32
11:36
11:40
11:44
11:48
11:52
11:56
12:00
12:04
12:08
Time (pDR)

pDR-1000
Tag Number: 19
Number of logged points: 53
Start time and date: 11:15:06 13-Jan
Elapsed time: 00:53:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.032 mg/m³
Time at maximum: 12:06:10 Jan 13
Max STEL Concentration: 0.012 mg/m³
Time at max STEL: 11:38:06 Jan 13
Overall Avg Conc: 0.011 mg/m³
Logged Data:

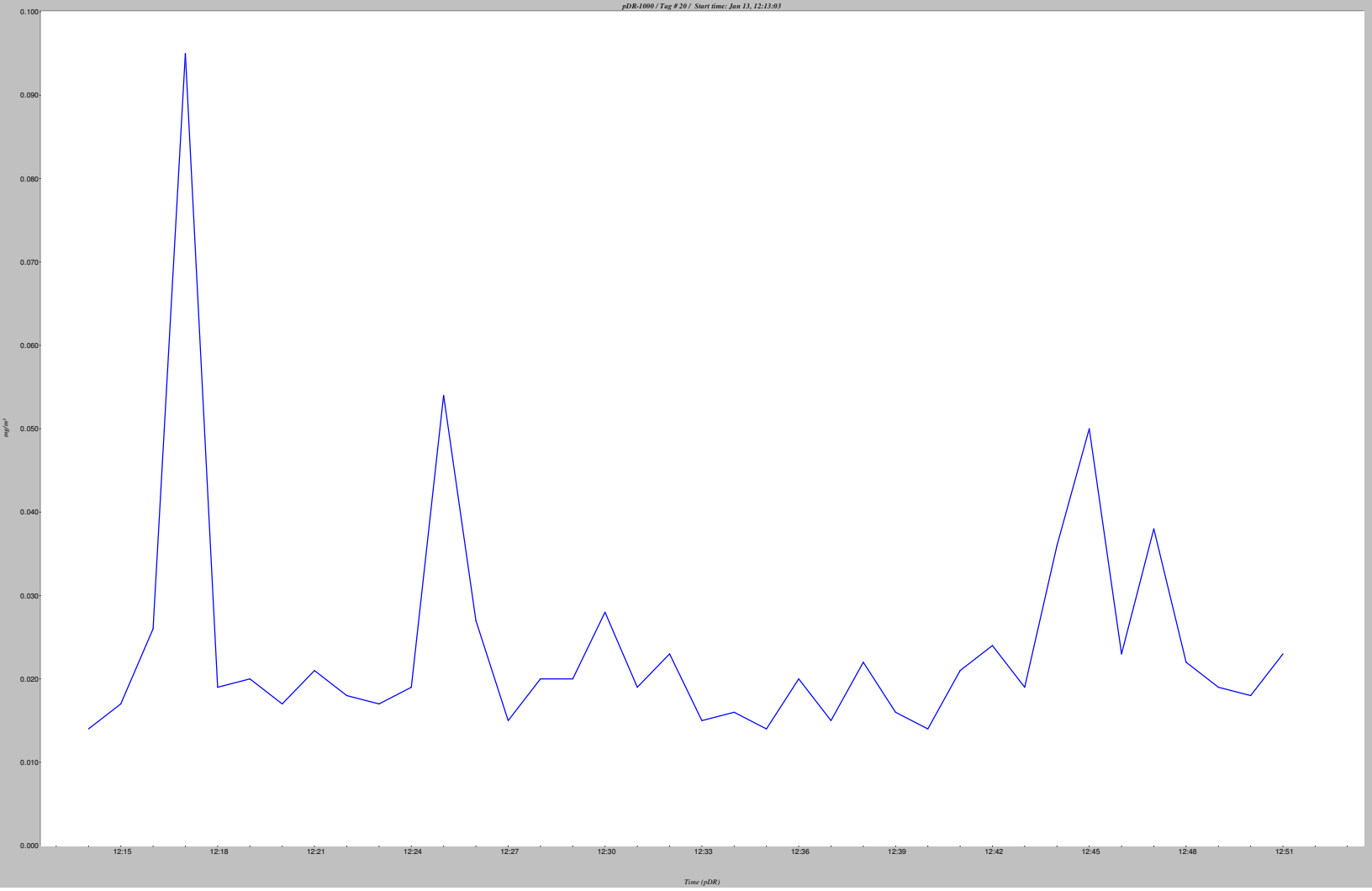
Point	Date	Time	Avg.(mg/m³)
1	13 Jan	11:16:06	0.009
2	13 Jan	11:17:06	0.010
3	13 Jan	11:18:06	0.008
4	13 Jan	11:19:06	0.009
5	13 Jan	11:20:06	0.008
6	13 Jan	11:21:06	0.009
7	13 Jan	11:22:06	0.008
8	13 Jan	11:23:06	0.010
9	13 Jan	11:24:06	0.012
10	13 Jan	11:25:06	0.009
11	13 Jan	11:26:06	0.011
12	13 Jan	11:27:06	0.010
13	13 Jan	11:28:06	0.011
14	13 Jan	11:29:06	0.010
15	13 Jan	11:30:06	0.009
16	13 Jan	11:31:06	0.009
17	13 Jan	11:32:06	0.014
18	13 Jan	11:33:06	0.011
19	13 Jan	11:34:06	0.010
20	13 Jan	11:35:06	0.014
21	13 Jan	11:36:06	0.014
22	13 Jan	11:37:06	0.014
23	13 Jan	11:38:06	0.016
24	13 Jan	11:39:06	0.013
25	13 Jan	11:40:06	0.010
26	13 Jan	11:41:06	0.013
27	13 Jan	11:42:06	0.017
28	13 Jan	11:43:06	0.007
29	13 Jan	11:44:06	0.014
30	13 Jan	11:45:06	0.010
31	13 Jan	11:46:06	0.011
32	13 Jan	11:47:06	0.011
33	13 Jan	11:48:06	0.010
34	13 Jan	11:49:06	0.011
35	13 Jan	11:50:06	0.008
36	13 Jan	11:51:06	0.012
37	13 Jan	11:52:06	0.009
38	13 Jan	11:53:06	0.010
39	13 Jan	11:54:06	0.010
40	13 Jan	11:55:06	0.007
41	13 Jan	11:56:06	0.008
42	13 Jan	11:57:06	0.008
43	13 Jan	11:58:06	0.013
44	13 Jan	11:59:06	0.009
45	13 Jan	12:00:06	0.010
46	13 Jan	12:01:06	0.012
47	13 Jan	12:02:06	0.008
48	13 Jan	12:03:06	0.011
49	13 Jan	12:04:06	0.010
50	13 Jan	12:05:06	0.011
51	13 Jan	12:06:06	0.011
52	13 Jan	12:07:06	0.010
53	13 Jan	12:08:06	0.012


pDR-1000 / Tag # 17 / Start time: Jan 13, 08:51:14
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
09:00
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
Time (pDR)

pDR-1000
Tag Number: 17
Number of logged points: 82
Start time and date: 08:51:14 13-Jan
Elapsed time: 01:22:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.041 mg/m³
Time at maximum: 09:39:46 Jan 13
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 09:10:44 Jan 13
Overall Avg Conc: 0.006 mg/m³
Logged Data:

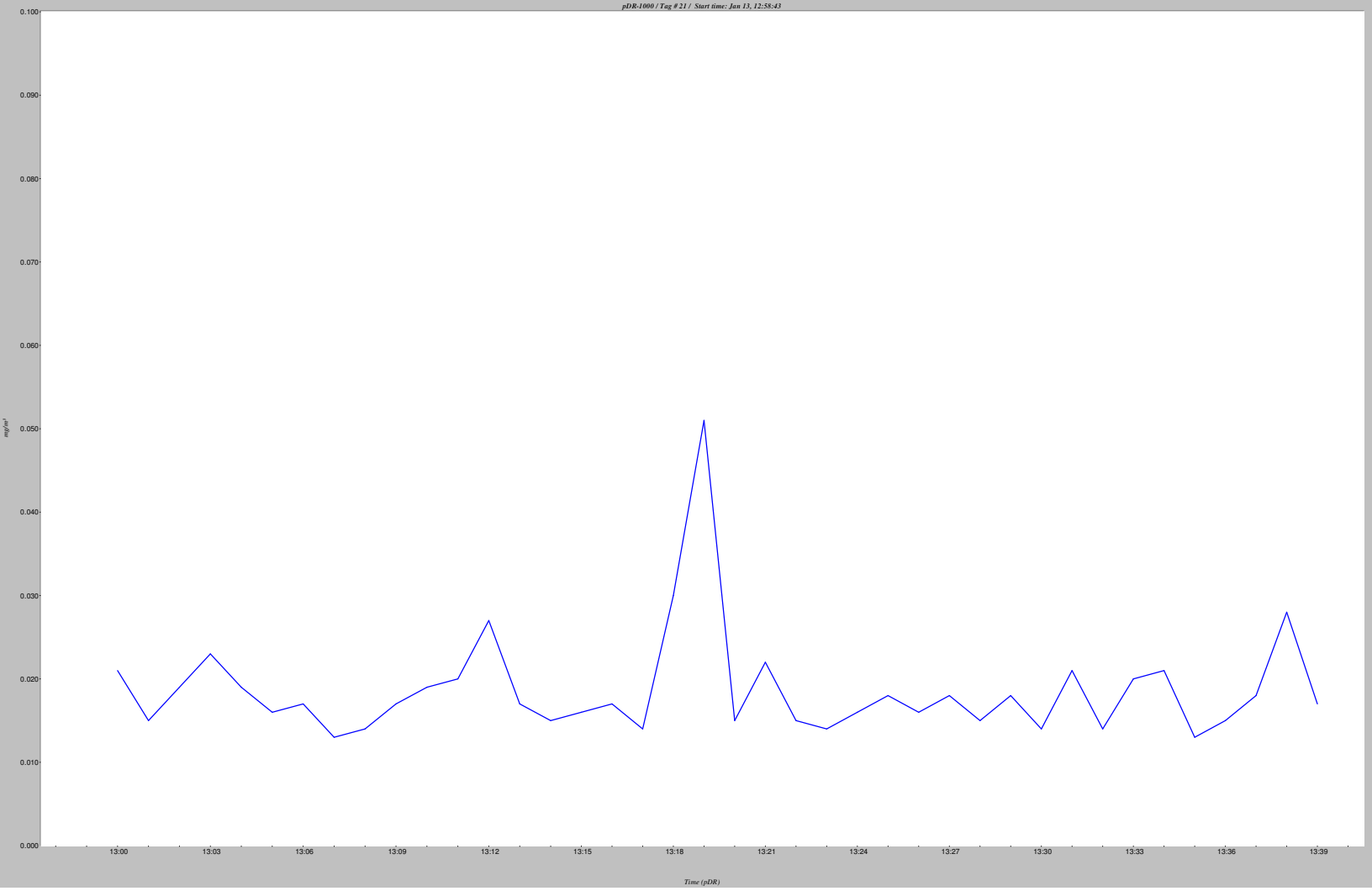
Point	Date	Time	Avg.(mg/m³)
1	13 Jan	08:52:14	0.006
2	13 Jan	08:53:14	0.006
3	13 Jan	08:54:14	0.010
4	13 Jan	08:55:14	0.006
5	13 Jan	08:56:14	0.008
6	13 Jan	08:57:14	0.007
7	13 Jan	08:58:14	0.010
8	13 Jan	08:59:14	0.006
9	13 Jan	09:00:14	0.008
10	13 Jan	09:01:14	0.008
11	13 Jan	09:02:14	0.006
12	13 Jan	09:03:14	0.007
13	13 Jan	09:04:14	0.008
14	13 Jan	09:05:14	0.007
15	13 Jan	09:06:14	0.008
16	13 Jan	09:07:14	0.007
17	13 Jan	09:08:14	0.005
18	13 Jan	09:09:14	0.009
19	13 Jan	09:10:14	0.009
20	13 Jan	09:11:14	0.011
21	13 Jan	09:12:14	0.007
22	13 Jan	09:13:14	0.007
23	13 Jan	09:14:14	0.007
24	13 Jan	09:15:14	0.007
25	13 Jan	09:16:14	0.005
26	13 Jan	09:17:14	0.007
27	13 Jan	09:18:14	0.006
28	13 Jan	09:19:14	0.005
29	13 Jan	09:20:14	0.006
30	13 Jan	09:21:14	0.006
31	13 Jan	09:22:14	0.005
32	13 Jan	09:23:14	0.005
33	13 Jan	09:24:14	0.008
34	13 Jan	09:25:14	0.006
35	13 Jan	09:26:14	0.010
36	13 Jan	09:27:14	0.009
37	13 Jan	09:28:14	0.006
38	13 Jan	09:29:14	0.005
39	13 Jan	09:30:14	0.005
40	13 Jan	09:31:14	0.004
41	13 Jan	09:32:14	0.003
42	13 Jan	09:33:14	0.004
43	13 Jan	09:34:14	0.005
44	13 Jan	09:35:14	0.004
45	13 Jan	09:36:14	0.006
46	13 Jan	09:37:14	0.006
47	13 Jan	09:38:14	0.005
48	13 Jan	09:39:14	0.006
49	13 Jan	09:40:14	0.011
50	13 Jan	09:41:14	0.005
51	13 Jan	09:42:14	0.004
52	13 Jan	09:43:14	0.004
53	13 Jan	09:44:14	0.006
54	13 Jan	09:45:14	0.007
55	13 Jan	09:46:14	0.008
56	13 Jan	09:47:14	0.011
57	13 Jan	09:48:14	0.004

58, 13 Jan, 09:49:14, 0.003
59, 13 Jan, 09:50:14, 0.003
60, 13 Jan, 09:51:14, 0.004
61, 13 Jan, 09:52:14, 0.004
62, 13 Jan, 09:53:14, 0.004
63, 13 Jan, 09:54:14, 0.002
64, 13 Jan, 09:55:14, 0.003
65, 13 Jan, 09:56:14, 0.004
66, 13 Jan, 09:57:14, 0.005
67, 13 Jan, 09:58:14, 0.004
68, 13 Jan, 09:59:14, 0.004
69, 13 Jan, 10:00:14, 0.004
70, 13 Jan, 10:01:14, 0.004
71, 13 Jan, 10:02:14, 0.003
72, 13 Jan, 10:03:14, 0.003
73, 13 Jan, 10:04:14, 0.004
74, 13 Jan, 10:05:14, 0.006
75, 13 Jan, 10:06:14, 0.004
76, 13 Jan, 10:07:14, 0.004
77, 13 Jan, 10:08:14, 0.003
78, 13 Jan, 10:09:14, 0.003
79, 13 Jan, 10:10:14, 0.004
80, 13 Jan, 10:11:14, 0.002
81, 13 Jan, 10:12:14, 0.002
82, 13 Jan, 10:13:14, 0.001


pDR-1000 / Tag # 20 / Start time: Jan 13, 12:13:03
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
12:15
12:18
12:21
12:24
12:27
12:30
12:33
12:36
12:39
12:42
12:45
12:48
12:51
Time (pDR)

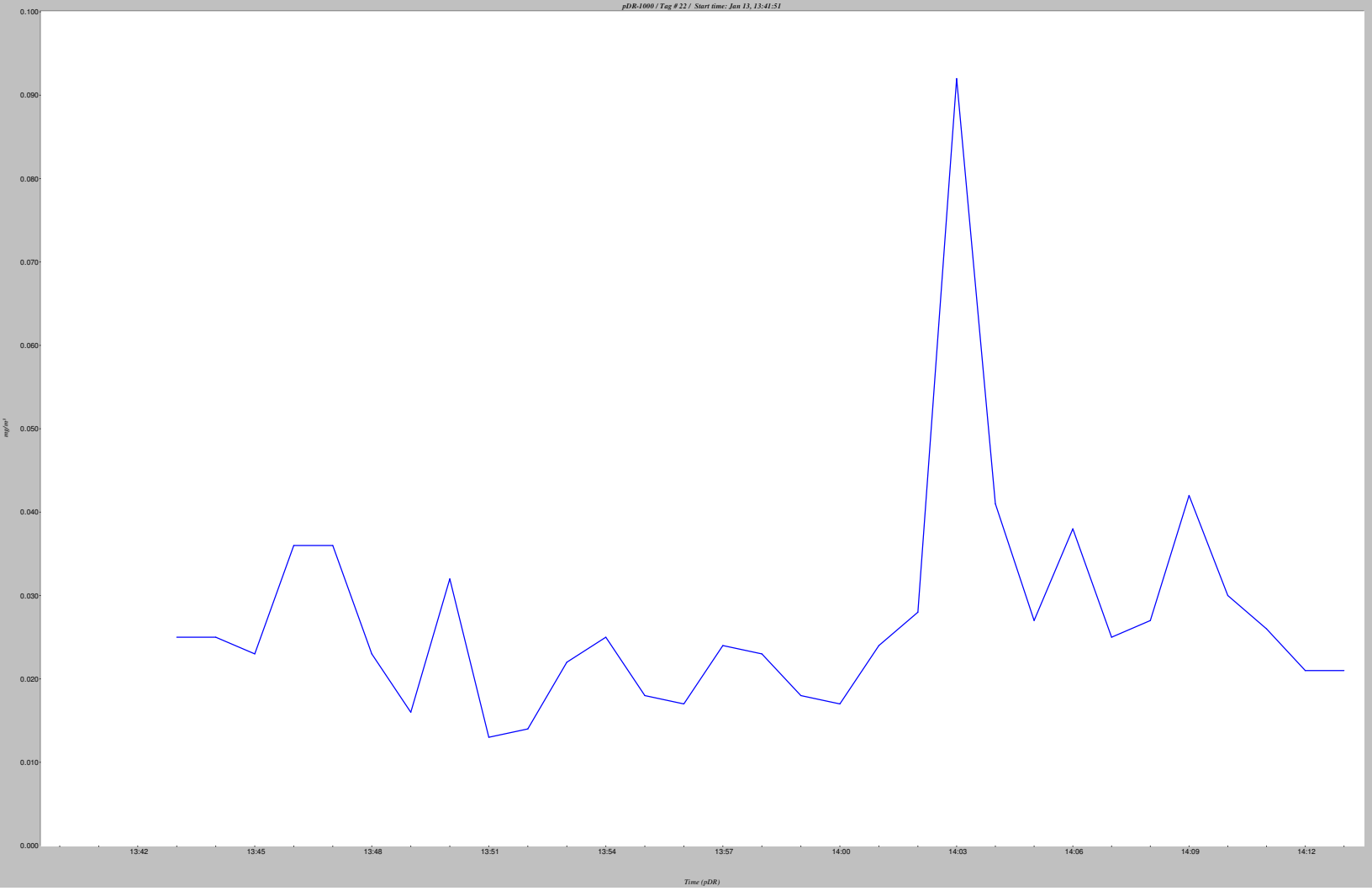
pDR-1000
Tag Number: 20
Number of logged points: 38
Start time and date: 12:13:03 13-Jan
Elapsed time: 00:38:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.422 mg/m³
Time at maximum: 12:16:59 Jan 13
Max STEL Concentration: 0.028 mg/m³
Time at max STEL: 12:30:03 Jan 13
Overall Avg Conc: 0.024 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	12:14:03	0.014
2	13 Jan	12:15:03	0.017
3	13 Jan	12:16:03	0.026
4	13 Jan	12:17:03	0.095
5	13 Jan	12:18:03	0.019
6	13 Jan	12:19:03	0.020
7	13 Jan	12:20:03	0.017
8	13 Jan	12:21:03	0.021
9	13 Jan	12:22:03	0.018
10	13 Jan	12:23:03	0.017
11	13 Jan	12:24:03	0.019
12	13 Jan	12:25:03	0.054
13	13 Jan	12:26:03	0.027
14	13 Jan	12:27:03	0.015
15	13 Jan	12:28:03	0.020
16	13 Jan	12:29:03	0.020
17	13 Jan	12:30:03	0.028
18	13 Jan	12:31:03	0.019
19	13 Jan	12:32:03	0.023
20	13 Jan	12:33:03	0.015
21	13 Jan	12:34:03	0.016
22	13 Jan	12:35:03	0.014
23	13 Jan	12:36:03	0.020
24	13 Jan	12:37:03	0.015
25	13 Jan	12:38:03	0.022
26	13 Jan	12:39:03	0.016
27	13 Jan	12:40:03	0.014
28	13 Jan	12:41:03	0.021
29	13 Jan	12:42:03	0.024
30	13 Jan	12:43:03	0.019
31	13 Jan	12:44:03	0.036
32	13 Jan	12:45:03	0.050
33	13 Jan	12:46:03	0.023
34	13 Jan	12:47:03	0.038
35	13 Jan	12:48:03	0.022
36	13 Jan	12:49:03	0.019
37	13 Jan	12:50:03	0.018
38	13 Jan	12:51:03	0.023


pDR-1000 / Tag # 21 / Start time: Jan 13, 12:58:43
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
13:00
13:03
13:06
13:09
13:12
13:15
13:18
13:21
13:24
13:27
13:30
13:33
13:36
13:39
Time (pDR)

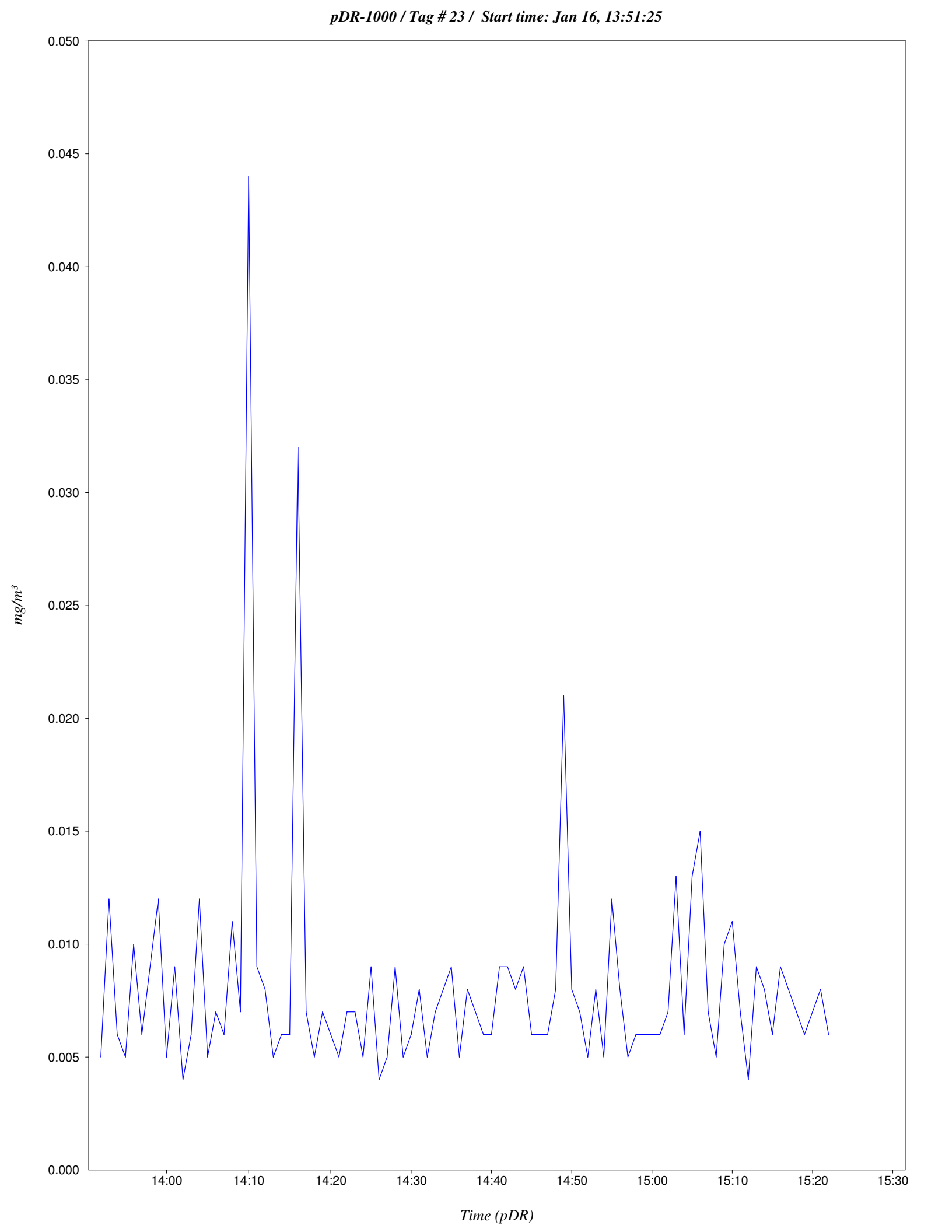
pDR-1000
Tag Number: 21
Number of logged points: 40
Start time and date: 12:58:43 13-Jan
Elapsed time: 00:40:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.082 mg/m³
Time at maximum: 13:18:16 Jan 13
Max STEL Concentration: 0.021 mg/m³
Time at max STEL: 13:21:43 Jan 13
Overall Avg Conc: 0.019 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	12:59:43	0.021
2	13 Jan	13:00:43	0.015
3	13 Jan	13:01:43	0.019
4	13 Jan	13:02:43	0.023
5	13 Jan	13:03:43	0.019
6	13 Jan	13:04:43	0.016
7	13 Jan	13:05:43	0.017
8	13 Jan	13:06:43	0.013
9	13 Jan	13:07:43	0.014
10	13 Jan	13:08:43	0.017
11	13 Jan	13:09:43	0.019
12	13 Jan	13:10:43	0.020
13	13 Jan	13:11:43	0.027
14	13 Jan	13:12:43	0.017
15	13 Jan	13:13:43	0.015
16	13 Jan	13:14:43	0.016
17	13 Jan	13:15:43	0.017
18	13 Jan	13:16:43	0.014
19	13 Jan	13:17:43	0.030
20	13 Jan	13:18:43	0.051
21	13 Jan	13:19:43	0.015
22	13 Jan	13:20:43	0.022
23	13 Jan	13:21:43	0.015
24	13 Jan	13:22:43	0.014
25	13 Jan	13:23:43	0.016
26	13 Jan	13:24:43	0.018
27	13 Jan	13:25:43	0.016
28	13 Jan	13:26:43	0.018
29	13 Jan	13:27:43	0.015
30	13 Jan	13:28:43	0.018
31	13 Jan	13:29:43	0.014
32	13 Jan	13:30:43	0.021
33	13 Jan	13:31:43	0.014
34	13 Jan	13:32:43	0.020
35	13 Jan	13:33:43	0.021
36	13 Jan	13:34:43	0.013
37	13 Jan	13:35:43	0.015
38	13 Jan	13:36:43	0.018
39	13 Jan	13:37:43	0.028
40	13 Jan	13:38:43	0.017


pDR-1000 / Tag # 22 / Start time: Jan 13, 13:41:51
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
13:42
13:45
13:48
13:51
13:54
13:57
14:00
14:03
14:06
14:09
14:12
Time (pDR)

pDR-1000
Tag Number: 22
Number of logged points: 31
Start time and date: 13:41:51 13-Jan
Elapsed time: 00:31:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.168 mg/m³
Time at maximum: 14:02:08 Jan 13
Max STEL Concentration: 0.032 mg/m³
Time at max STEL: 14:09:51 Jan 13
Overall Avg Conc: 0.027 mg/m³
Logged Data:

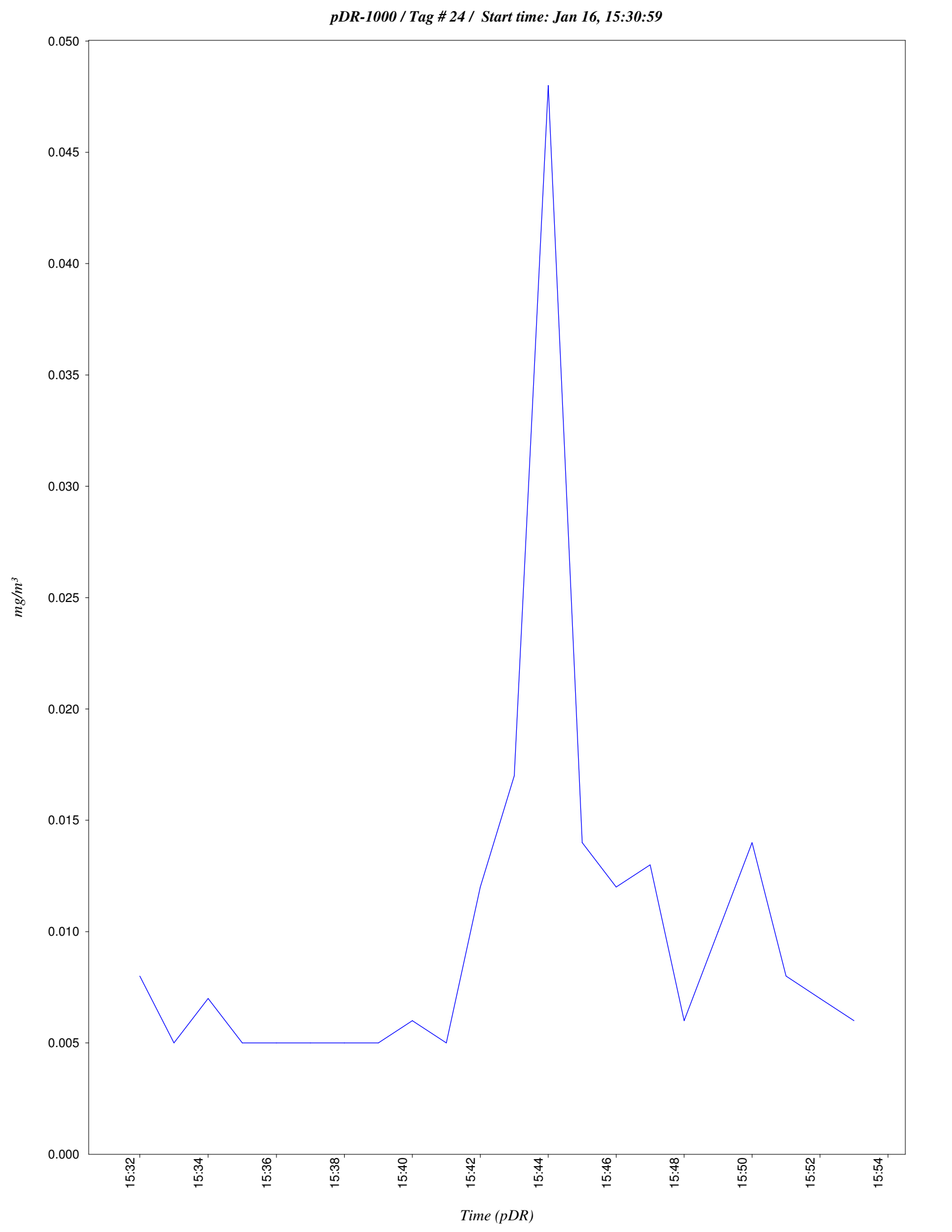
Point	Date	Time	Avg.(mg/m³)
1	13 Jan	13:42:51	0.025
2	13 Jan	13:43:51	0.025
3	13 Jan	13:44:51	0.023
4	13 Jan	13:45:51	0.036
5	13 Jan	13:46:51	0.036
6	13 Jan	13:47:51	0.023
7	13 Jan	13:48:51	0.016
8	13 Jan	13:49:51	0.032
9	13 Jan	13:50:51	0.013
10	13 Jan	13:51:51	0.014
11	13 Jan	13:52:51	0.022
12	13 Jan	13:53:51	0.025
13	13 Jan	13:54:51	0.018
14	13 Jan	13:55:51	0.017
15	13 Jan	13:56:51	0.024
16	13 Jan	13:57:51	0.023
17	13 Jan	13:58:51	0.018
18	13 Jan	13:59:51	0.017
19	13 Jan	14:00:51	0.024
20	13 Jan	14:01:51	0.028
21	13 Jan	14:02:51	0.092
22	13 Jan	14:03:51	0.041
23	13 Jan	14:04:51	0.027
24	13 Jan	14:05:51	0.038
25	13 Jan	14:06:51	0.025
26	13 Jan	14:07:51	0.027
27	13 Jan	14:08:51	0.042
28	13 Jan	14:09:51	0.030
29	13 Jan	14:10:51	0.026
30	13 Jan	14:11:51	0.021
31	13 Jan	14:12:51	0.021


pDR-1000 / Tag # 23 / Start time: Jan 16, 13:51:25
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
14:00
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
Time (pDR)

pDR-1000
Tag Number: 23
Number of logged points: 91
Start time and date: 13:51:25 16-Jan
Elapsed time: 01:31:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.165 mg/m³
Time at maximum: 14:16:20 Jan 16
Max STEL Concentration: 0.011 mg/m³
Time at max STEL: 14:16:25 Jan 16
Overall Avg Conc: 0.008 mg/m³
Logged Data:

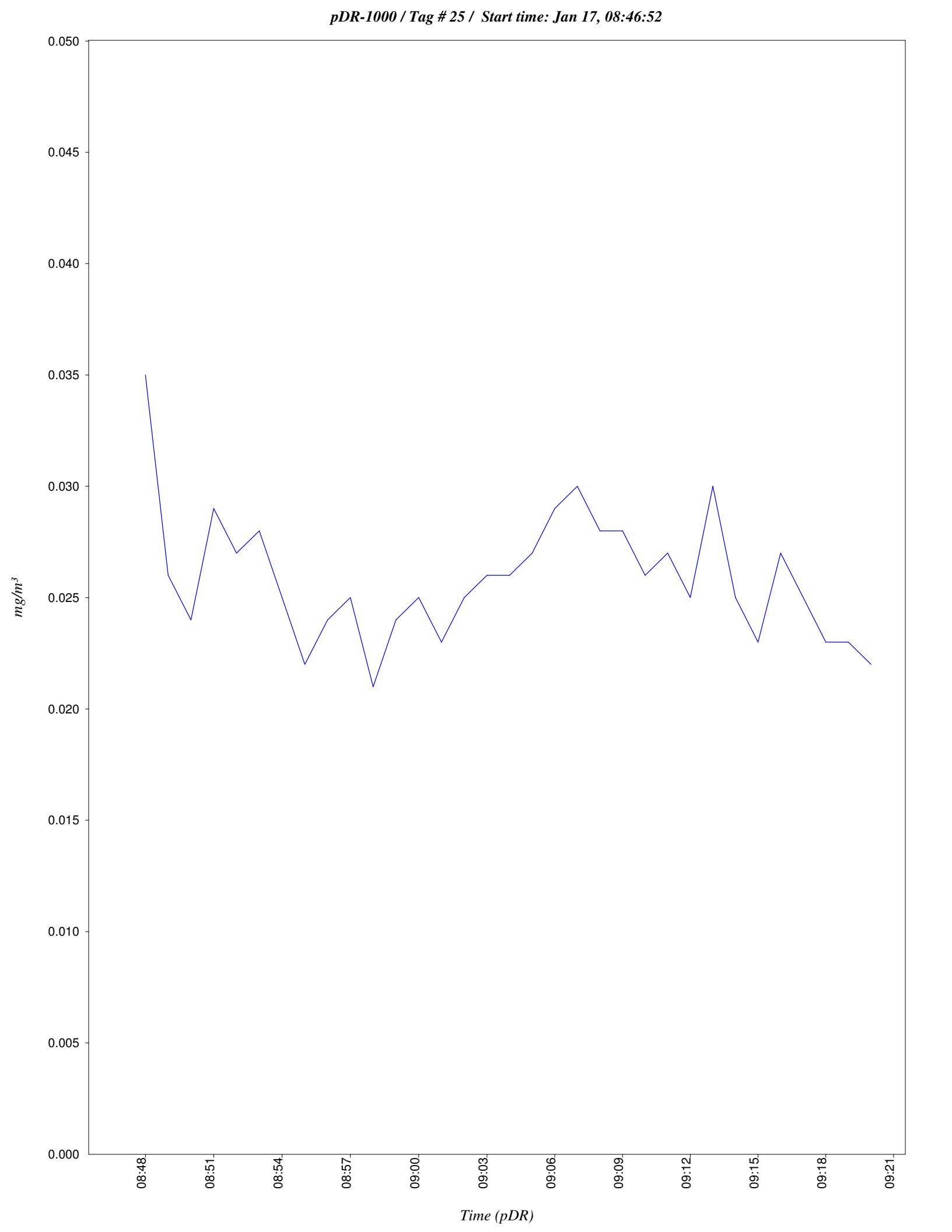
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	13:52:25	0.005
2	16 Jan	13:53:25	0.012
3	16 Jan	13:54:25	0.006
4	16 Jan	13:55:25	0.005
5	16 Jan	13:56:25	0.010
6	16 Jan	13:57:25	0.006
7	16 Jan	13:58:25	0.009
8	16 Jan	13:59:25	0.012
9	16 Jan	14:00:25	0.005
10	16 Jan	14:01:25	0.009
11	16 Jan	14:02:25	0.004
12	16 Jan	14:03:25	0.006
13	16 Jan	14:04:25	0.012
14	16 Jan	14:05:25	0.005
15	16 Jan	14:06:25	0.007
16	16 Jan	14:07:25	0.006
17	16 Jan	14:08:25	0.011
18	16 Jan	14:09:25	0.007
19	16 Jan	14:10:25	0.044
20	16 Jan	14:11:25	0.009
21	16 Jan	14:12:25	0.008
22	16 Jan	14:13:25	0.005
23	16 Jan	14:14:25	0.006
24	16 Jan	14:15:25	0.006
25	16 Jan	14:16:25	0.032
26	16 Jan	14:17:25	0.007
27	16 Jan	14:18:25	0.005
28	16 Jan	14:19:25	0.007
29	16 Jan	14:20:25	0.006
30	16 Jan	14:21:25	0.005
31	16 Jan	14:22:25	0.007
32	16 Jan	14:23:25	0.007
33	16 Jan	14:24:25	0.005
34	16 Jan	14:25:25	0.009
35	16 Jan	14:26:25	0.004
36	16 Jan	14:27:25	0.005
37	16 Jan	14:28:25	0.009
38	16 Jan	14:29:25	0.005
39	16 Jan	14:30:25	0.006
40	16 Jan	14:31:25	0.008
41	16 Jan	14:32:25	0.005
42	16 Jan	14:33:25	0.007
43	16 Jan	14:34:25	0.008
44	16 Jan	14:35:25	0.009
45	16 Jan	14:36:25	0.005
46	16 Jan	14:37:25	0.008
47	16 Jan	14:38:25	0.007
48	16 Jan	14:39:25	0.006
49	16 Jan	14:40:25	0.006
50	16 Jan	14:41:25	0.009
51	16 Jan	14:42:25	0.009
52	16 Jan	14:43:25	0.008
53	16 Jan	14:44:25	0.009
54	16 Jan	14:45:25	0.006
55	16 Jan	14:46:25	0.006
56	16 Jan	14:47:25	0.006
57	16 Jan	14:48:25	0.008

58, 16 Jan, 14:49:25, 0.021
59, 16 Jan, 14:50:25, 0.008
60, 16 Jan, 14:51:25, 0.007
61, 16 Jan, 14:52:25, 0.005
62, 16 Jan, 14:53:25, 0.008
63, 16 Jan, 14:54:25, 0.005
64, 16 Jan, 14:55:25, 0.012
65, 16 Jan, 14:56:25, 0.008
66, 16 Jan, 14:57:25, 0.005
67, 16 Jan, 14:58:25, 0.006
68, 16 Jan, 14:59:25, 0.006
69, 16 Jan, 15:00:25, 0.006
70, 16 Jan, 15:01:25, 0.006
71, 16 Jan, 15:02:25, 0.007
72, 16 Jan, 15:03:25, 0.013
73, 16 Jan, 15:04:25, 0.006
74, 16 Jan, 15:05:25, 0.013
75, 16 Jan, 15:06:25, 0.015
76, 16 Jan, 15:07:25, 0.007
77, 16 Jan, 15:08:25, 0.005
78, 16 Jan, 15:09:25, 0.010
79, 16 Jan, 15:10:25, 0.011
80, 16 Jan, 15:11:25, 0.007
81, 16 Jan, 15:12:25, 0.004
82, 16 Jan, 15:13:25, 0.009
83, 16 Jan, 15:14:25, 0.008
84, 16 Jan, 15:15:25, 0.006
85, 16 Jan, 15:16:25, 0.009
86, 16 Jan, 15:17:25, 0.008
87, 16 Jan, 15:18:25, 0.007
88, 16 Jan, 15:19:25, 0.006
89, 16 Jan, 15:20:25, 0.007
90, 16 Jan, 15:21:25, 0.008
91, 16 Jan, 15:22:25, 0.006


pDR-1000 / Tag # 24 / Start time: Jan 16, 15:30:59
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
15:32
15:34
15:36
15:38
15:40
15:42
15:44
15:46
15:48
15:50
15:52
15:54
Time (pDR)

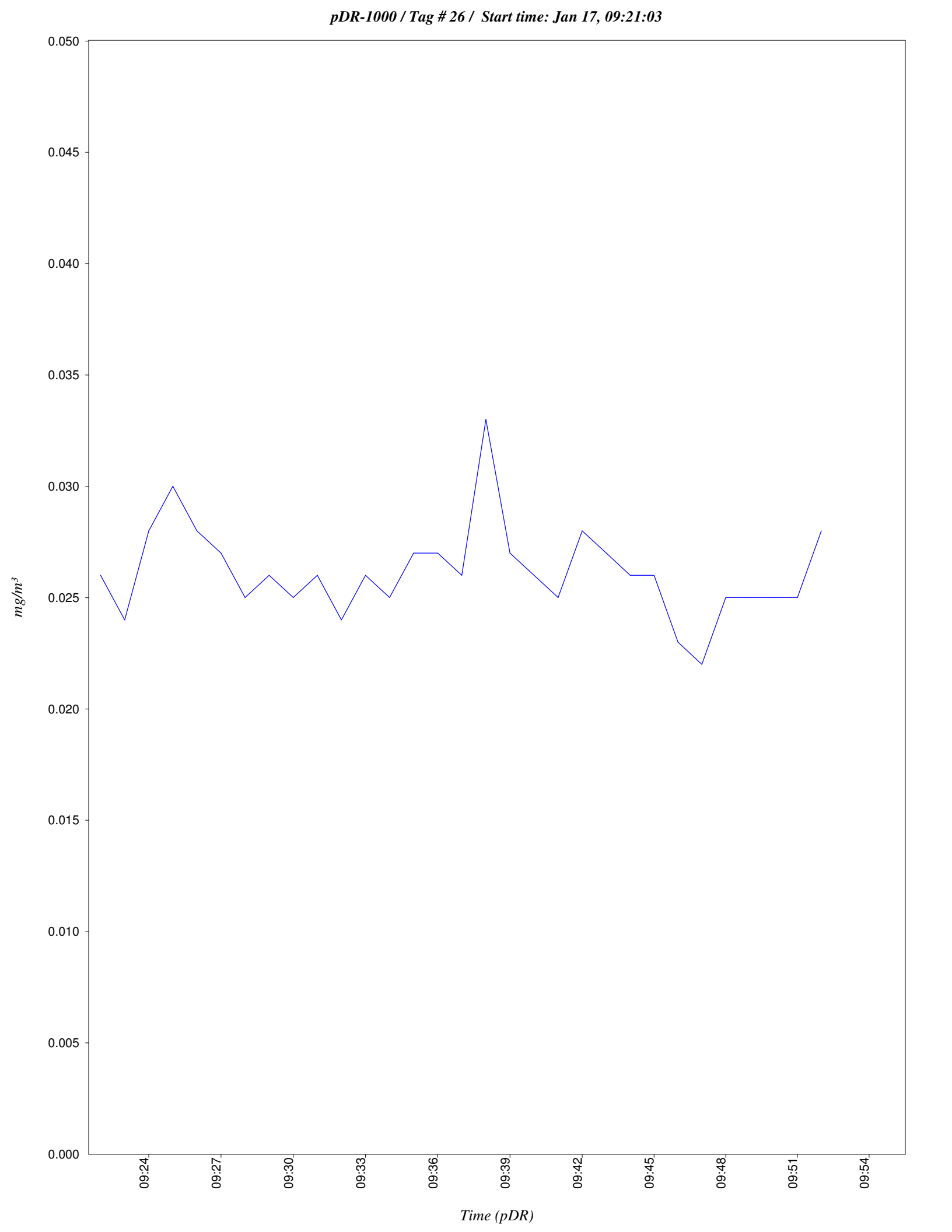
pDR-1000
Tag Number: 24
Number of logged points: 22
Start time and date: 15:30:59 16-Jan
Elapsed time: 00:22:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.229 mg/m³
Time at maximum: 15:43:35 Jan 16
Max STEL Concentration: 0.012 mg/m³
Time at max STEL: 15:49:59 Jan 16
Overall Avg Conc: 0.010 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	15:31:59	0.008
2	16 Jan	15:32:59	0.005
3	16 Jan	15:33:59	0.007
4	16 Jan	15:34:59	0.005
5	16 Jan	15:35:59	0.005
6	16 Jan	15:36:59	0.005
7	16 Jan	15:37:59	0.005
8	16 Jan	15:38:59	0.005
9	16 Jan	15:39:59	0.006
10	16 Jan	15:40:59	0.005
11	16 Jan	15:41:59	0.012
12	16 Jan	15:42:59	0.017
13	16 Jan	15:43:59	0.048
14	16 Jan	15:44:59	0.014
15	16 Jan	15:45:59	0.012
16	16 Jan	15:46:59	0.013
17	16 Jan	15:47:59	0.006
18	16 Jan	15:48:59	0.010
19	16 Jan	15:49:59	0.014
20	16 Jan	15:50:59	0.008
21	16 Jan	15:51:59	0.007
22	16 Jan	15:52:59	0.006


pDR-1000 / Tag # 25 / Start time: Jan 17, 08:46:52
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
08:48
08:51
08:54
08:57
09:00
09:03
09:06
09:09
09:12
09:15
09:18
09:21
Time (pDR)

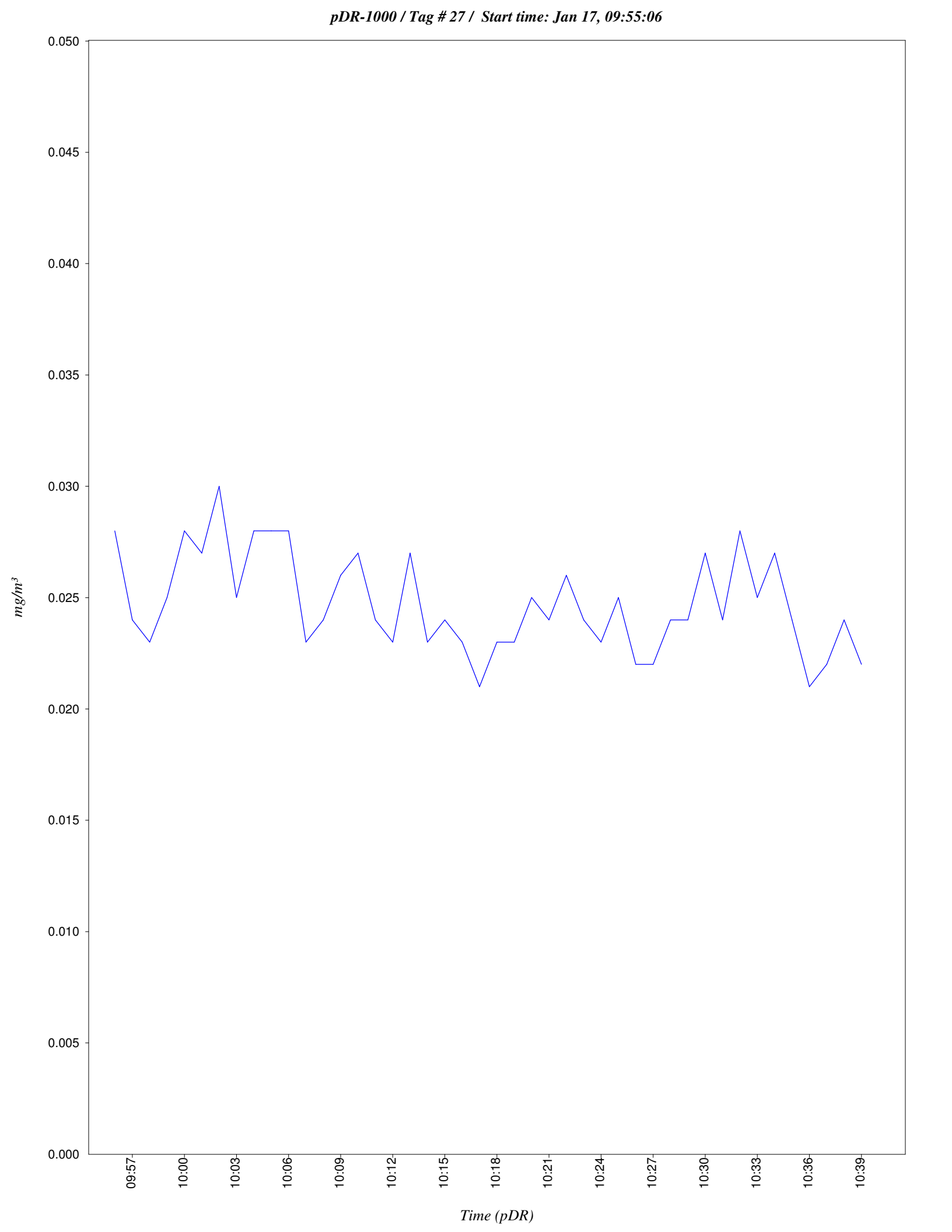
pDR-1000
Tag Number: 25
Number of logged points: 33
Start time and date: 08:46:52 17-Jan
Elapsed time: 00:33:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.072 mg/m³
Time at maximum: 08:47:42 Jan 17
Max STEL Concentration: 0.027 mg/m³
Time at max STEL: 09:12:52 Jan 17
Overall Avg Conc: 0.026 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	08:47:52	0.035
2	17 Jan	08:48:52	0.026
3	17 Jan	08:49:52	0.024
4	17 Jan	08:50:52	0.029
5	17 Jan	08:51:52	0.027
6	17 Jan	08:52:52	0.028
7	17 Jan	08:53:52	0.025
8	17 Jan	08:54:52	0.022
9	17 Jan	08:55:52	0.024
10	17 Jan	08:56:52	0.025
11	17 Jan	08:57:52	0.021
12	17 Jan	08:58:52	0.024
13	17 Jan	08:59:52	0.025
14	17 Jan	09:00:52	0.023
15	17 Jan	09:01:52	0.025
16	17 Jan	09:02:52	0.026
17	17 Jan	09:03:52	0.026
18	17 Jan	09:04:52	0.027
19	17 Jan	09:05:52	0.029
20	17 Jan	09:06:52	0.030
21	17 Jan	09:07:52	0.028
22	17 Jan	09:08:52	0.028
23	17 Jan	09:09:52	0.026
24	17 Jan	09:10:52	0.027
25	17 Jan	09:11:52	0.025
26	17 Jan	09:12:52	0.030
27	17 Jan	09:13:52	0.025
28	17 Jan	09:14:52	0.023
29	17 Jan	09:15:52	0.027
30	17 Jan	09:16:52	0.025
31	17 Jan	09:17:52	0.023
32	17 Jan	09:18:52	0.023
33	17 Jan	09:19:52	0.022


pDR-1000 / Tag # 26 / Start time: Jan 17, 09:21:03
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:24
09:27
09:30
09:33
09:36
09:39
09:42
09:45
09:48
09:51
09:54
Time (pDR)

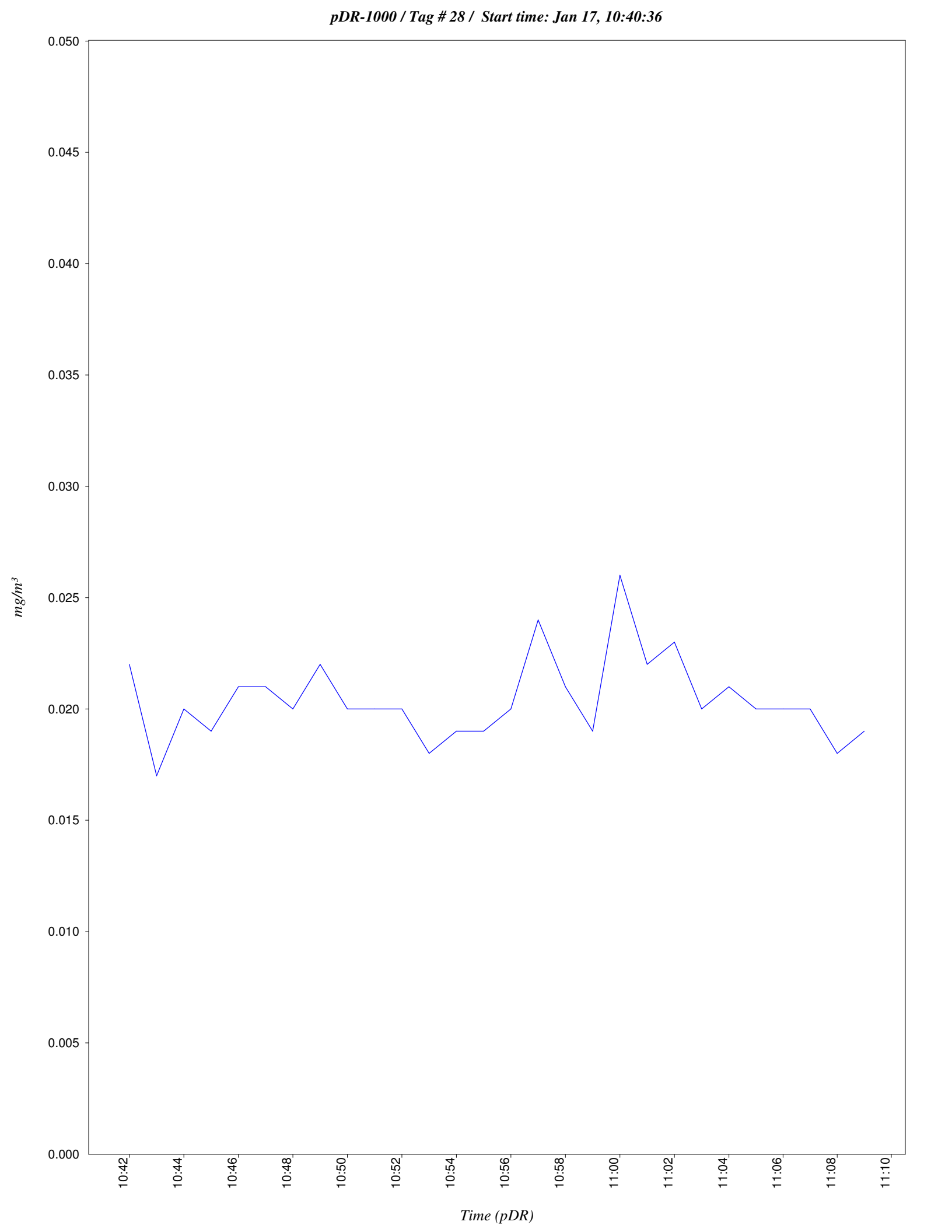
pDR-1000
Tag Number: 26
Number of logged points: 31
Start time and date: 09:21:03 17-Jan
Elapsed time: 00:31:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.046 mg/m³
Time at maximum: 09:37:27 Jan 17
Max STEL Concentration: 0.027 mg/m³
Time at max STEL: 09:37:33 Jan 17
Overall Avg Conc: 0.026 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	09:22:03	0.026
2	17 Jan	09:23:03	0.024
3	17 Jan	09:24:03	0.028
4	17 Jan	09:25:03	0.030
5	17 Jan	09:26:03	0.028
6	17 Jan	09:27:03	0.027
7	17 Jan	09:28:03	0.025
8	17 Jan	09:29:03	0.026
9	17 Jan	09:30:03	0.025
10	17 Jan	09:31:03	0.026
11	17 Jan	09:32:03	0.024
12	17 Jan	09:33:03	0.026
13	17 Jan	09:34:03	0.025
14	17 Jan	09:35:03	0.027
15	17 Jan	09:36:03	0.027
16	17 Jan	09:37:03	0.026
17	17 Jan	09:38:03	0.033
18	17 Jan	09:39:03	0.027
19	17 Jan	09:40:03	0.026
20	17 Jan	09:41:03	0.025
21	17 Jan	09:42:03	0.028
22	17 Jan	09:43:03	0.027
23	17 Jan	09:44:03	0.026
24	17 Jan	09:45:03	0.026
25	17 Jan	09:46:03	0.023
26	17 Jan	09:47:03	0.022
27	17 Jan	09:48:03	0.025
28	17 Jan	09:49:03	0.025
29	17 Jan	09:50:03	0.025
30	17 Jan	09:51:03	0.025
31	17 Jan	09:52:03	0.028


pDR-1000 / Tag # 27 / Start time: Jan 17, 09:55:06
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:57
10:00
10:03
10:06
10:09
10:12
10:15
10:18
10:21
10:24
10:27
10:30
10:33
10:36
10:39
Time (pDR)

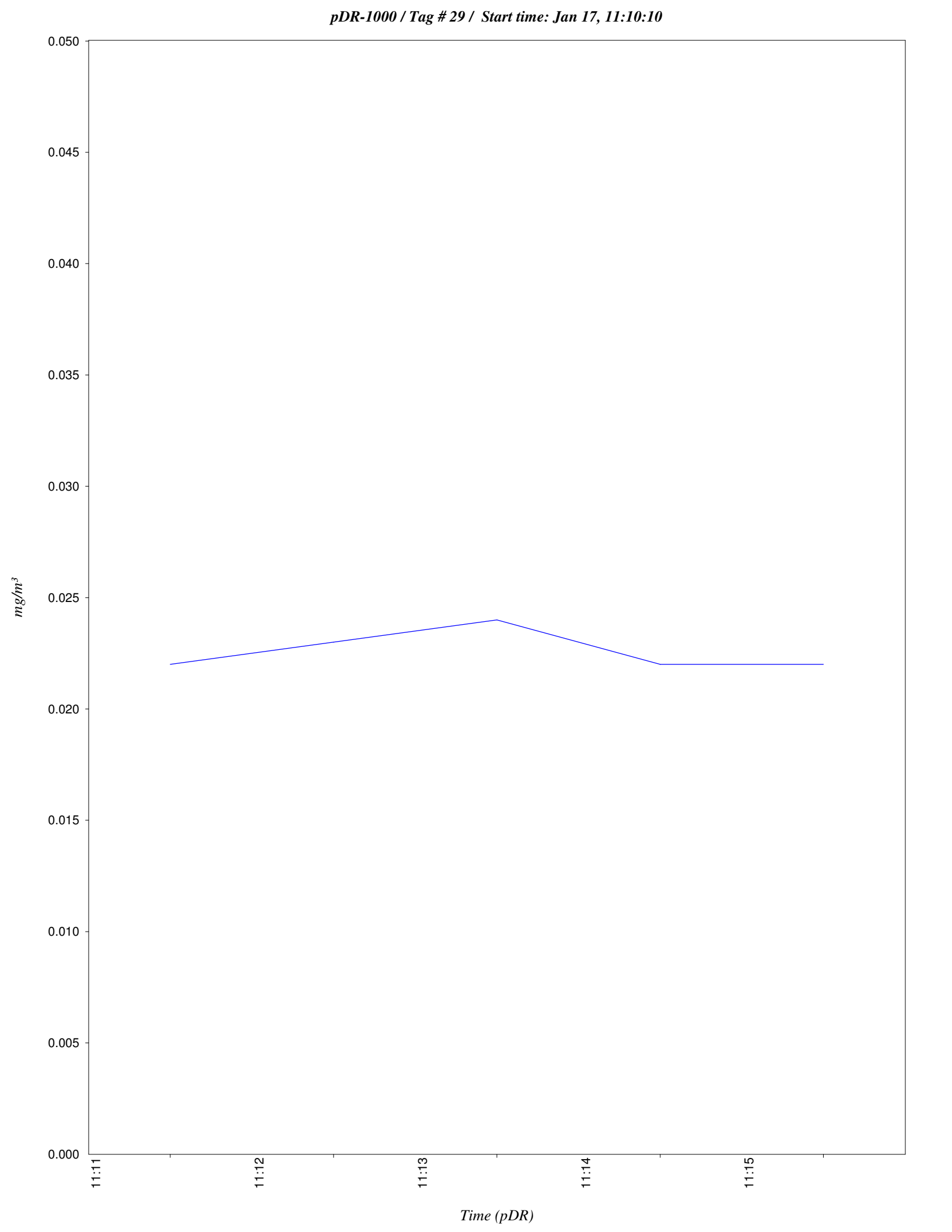
pDR-1000
Tag Number: 27
Number of logged points: 44
Start time and date: 09:55:06 17-Jan
Elapsed time: 00:44:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.044 mg/m³
Time at maximum: 10:33:15 Jan 17
Max STEL Concentration: 0.026 mg/m³
Time at max STEL: 10:10:06 Jan 17
Overall Avg Conc: 0.025 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	09:56:06	0.028
2	17 Jan	09:57:06	0.024
3	17 Jan	09:58:06	0.023
4	17 Jan	09:59:06	0.025
5	17 Jan	10:00:06	0.028
6	17 Jan	10:01:06	0.027
7	17 Jan	10:02:06	0.030
8	17 Jan	10:03:06	0.025
9	17 Jan	10:04:06	0.028
10	17 Jan	10:05:06	0.028
11	17 Jan	10:06:06	0.028
12	17 Jan	10:07:06	0.023
13	17 Jan	10:08:06	0.024
14	17 Jan	10:09:06	0.026
15	17 Jan	10:10:06	0.027
16	17 Jan	10:11:06	0.024
17	17 Jan	10:12:06	0.023
18	17 Jan	10:13:06	0.027
19	17 Jan	10:14:06	0.023
20	17 Jan	10:15:06	0.024
21	17 Jan	10:16:06	0.023
22	17 Jan	10:17:06	0.021
23	17 Jan	10:18:06	0.023
24	17 Jan	10:19:06	0.023
25	17 Jan	10:20:06	0.025
26	17 Jan	10:21:06	0.024
27	17 Jan	10:22:06	0.026
28	17 Jan	10:23:06	0.024
29	17 Jan	10:24:06	0.023
30	17 Jan	10:25:06	0.025
31	17 Jan	10:26:06	0.022
32	17 Jan	10:27:06	0.022
33	17 Jan	10:28:06	0.024
34	17 Jan	10:29:06	0.024
35	17 Jan	10:30:06	0.027
36	17 Jan	10:31:06	0.024
37	17 Jan	10:32:06	0.028
38	17 Jan	10:33:06	0.025
39	17 Jan	10:34:06	0.027
40	17 Jan	10:35:06	0.024
41	17 Jan	10:36:06	0.021
42	17 Jan	10:37:06	0.022
43	17 Jan	10:38:06	0.024
44	17 Jan	10:39:06	0.022


pDR-1000 / Tag # 28 / Start time: Jan 17, 10:40:36
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
10:42
10:44
10:46
10:48
10:50
10:52
10:54
10:56
10:58
11:00
11:02
11:04
11:06
11:08
11:10
Time (pDR)

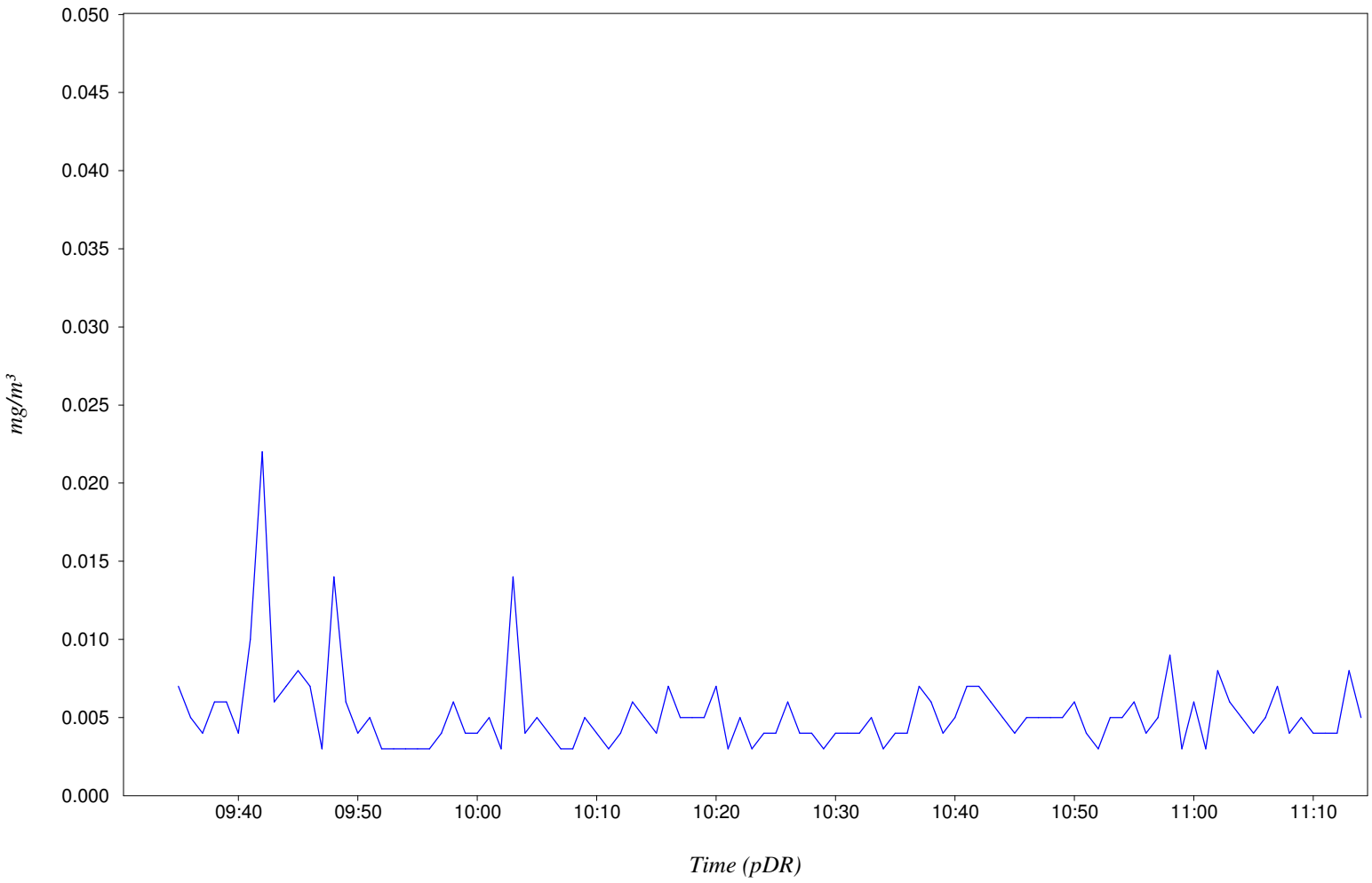
pDR-1000
Tag Number: 28
Number of logged points: 28
Start time and date: 10:40:36 17-Jan
Elapsed time: 00:28:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.034 mg/m³
Time at maximum: 10:59:32 Jan 17
Max STEL Concentration: 0.021 mg/m³
Time at max STEL: 10:59:36 Jan 17
Overall Avg Conc: 0.020 mg/m³
Logged Data:

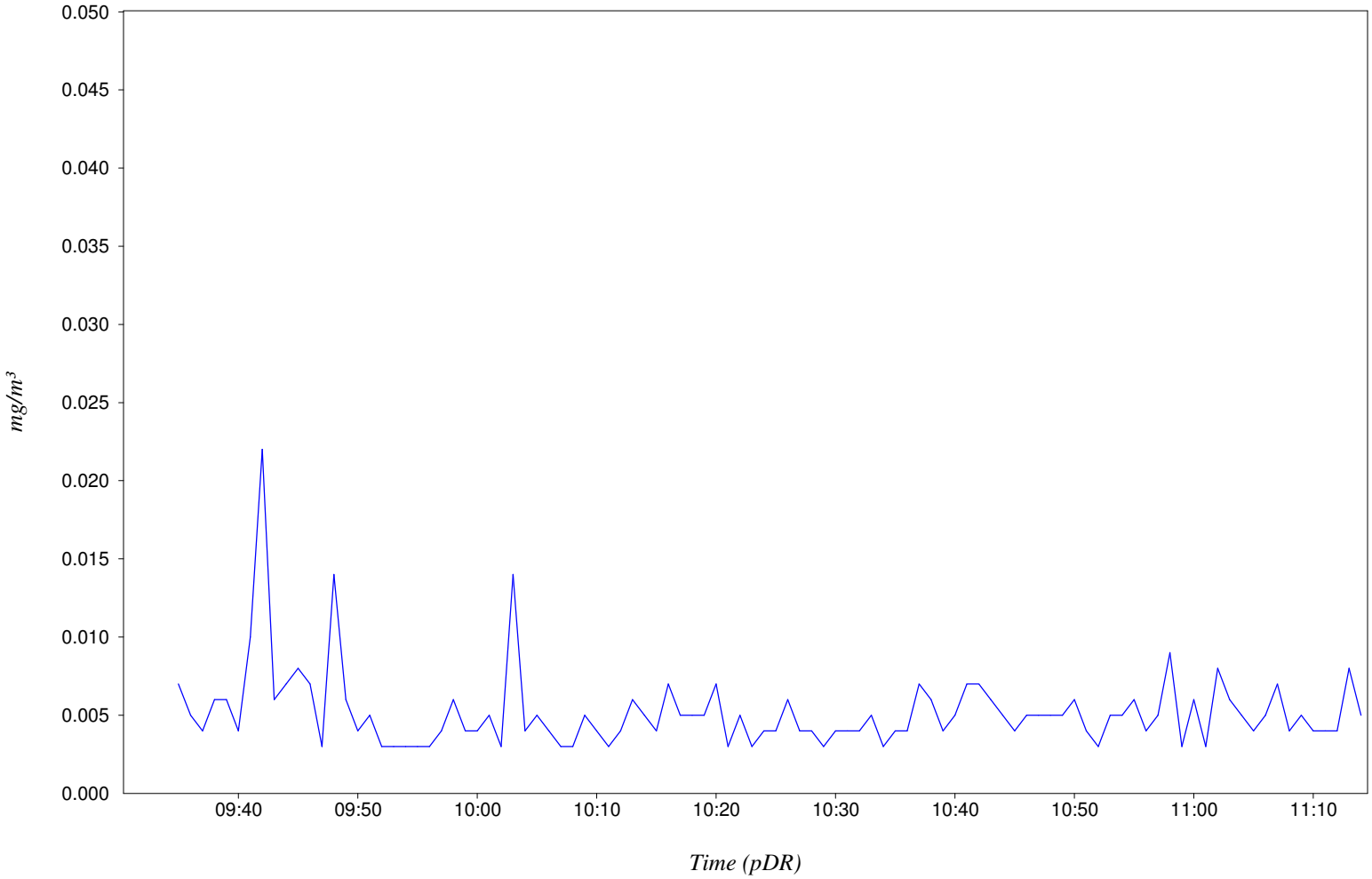
Point	Date	Time	Avg.(mg/m³)
1	17 Jan	10:41:36	0.022
2	17 Jan	10:42:36	0.017
3	17 Jan	10:43:36	0.020
4	17 Jan	10:44:36	0.019
5	17 Jan	10:45:36	0.021
6	17 Jan	10:46:36	0.021
7	17 Jan	10:47:36	0.020
8	17 Jan	10:48:36	0.022
9	17 Jan	10:49:36	0.020
10	17 Jan	10:50:36	0.020
11	17 Jan	10:51:36	0.020
12	17 Jan	10:52:36	0.018
13	17 Jan	10:53:36	0.019
14	17 Jan	10:54:36	0.019
15	17 Jan	10:55:36	0.020
16	17 Jan	10:56:36	0.024
17	17 Jan	10:57:36	0.021
18	17 Jan	10:58:36	0.019
19	17 Jan	10:59:36	0.026
20	17 Jan	11:00:36	0.022
21	17 Jan	11:01:36	0.023
22	17 Jan	11:02:36	0.020
23	17 Jan	11:03:36	0.021
24	17 Jan	11:04:36	0.020
25	17 Jan	11:05:36	0.020
26	17 Jan	11:06:36	0.020
27	17 Jan	11:07:36	0.018
28	17 Jan	11:08:36	0.019


pDR-1000 / Tag # 29 / Start time: Jan 17, 11:10:10
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
11:11
11:12
11:13
11:14
11:15
Time (pDR)

pDR-1000
Tag Number: 29
Number of logged points: 5
Start time and date: 11:10:10 17-Jan
Elapsed time: 00:05:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.030 mg/m³
Time at maximum: 11:10:48 Jan 17
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 11:15:40 Jan 17
Overall Avg Conc: 0.022 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	11:11:10	0.022
2	17 Jan	11:12:10	0.023
3	17 Jan	11:13:10	0.024
4	17 Jan	11:14:10	0.022
5	17 Jan	11:15:10	0.022


pDR-1000 / Tag # 30 / Start time: Jan 18, 09:34:23
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
Time (pDR)


0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
Time (pDR)

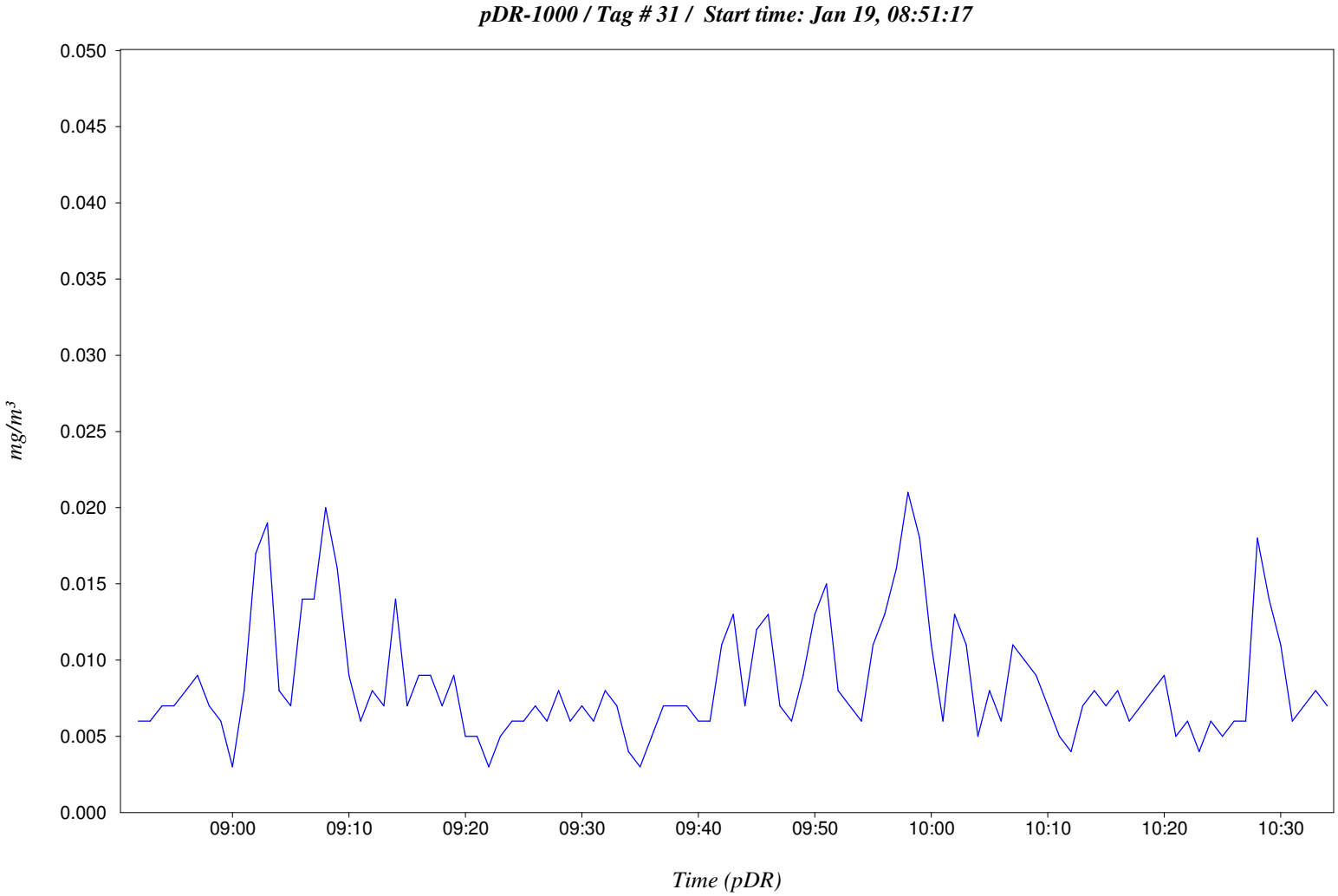
pDR-1000
Tag Number: 30
Number of logged points: 262
Start time and date: 09:34:23 18-Jan
Elapsed time: 04:22:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.106 mg/m³
Time at maximum: 11:50:39 Jan 18
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 09:49:23 Jan 18
Overall Avg Conc: 0.005 mg/m³
Logged Data:

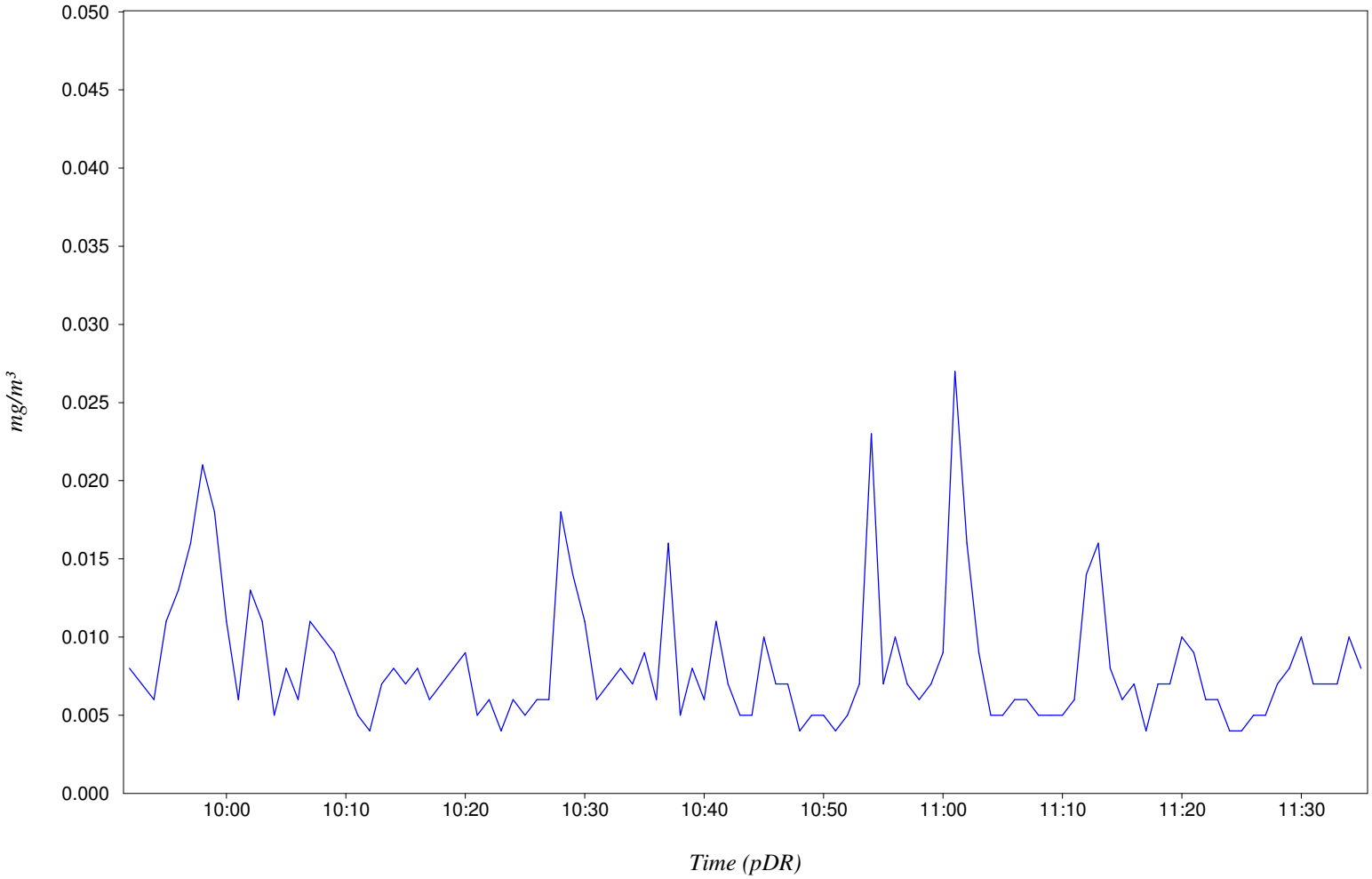
Point	Date	Time	Avg.(mg/m³)
1	18 Jan	09:35:23	0.007
2	18 Jan	09:36:23	0.005
3	18 Jan	09:37:23	0.004
4	18 Jan	09:38:23	0.006
5	18 Jan	09:39:23	0.006
6	18 Jan	09:40:23	0.004
7	18 Jan	09:41:23	0.010
8	18 Jan	09:42:23	0.022
9	18 Jan	09:43:23	0.006
10	18 Jan	09:44:23	0.007
11	18 Jan	09:45:23	0.008
12	18 Jan	09:46:23	0.007
13	18 Jan	09:47:23	0.003
14	18 Jan	09:48:23	0.014
15	18 Jan	09:49:23	0.006
16	18 Jan	09:50:23	0.004
17	18 Jan	09:51:23	0.005
18	18 Jan	09:52:23	0.003
19	18 Jan	09:53:23	0.003
20	18 Jan	09:54:23	0.003
21	18 Jan	09:55:23	0.003
22	18 Jan	09:56:23	0.003
23	18 Jan	09:57:23	0.004
24	18 Jan	09:58:23	0.006
25	18 Jan	09:59:23	0.004
26	18 Jan	10:00:23	0.004
27	18 Jan	10:01:23	0.005
28	18 Jan	10:02:23	0.003
29	18 Jan	10:03:23	0.014
30	18 Jan	10:04:23	0.004
31	18 Jan	10:05:23	0.005
32	18 Jan	10:06:23	0.004
33	18 Jan	10:07:23	0.003
34	18 Jan	10:08:23	0.003
35	18 Jan	10:09:23	0.005
36	18 Jan	10:10:23	0.004
37	18 Jan	10:11:23	0.003
38	18 Jan	10:12:23	0.004
39	18 Jan	10:13:23	0.006
40	18 Jan	10:14:23	0.005
41	18 Jan	10:15:23	0.004
42	18 Jan	10:16:23	0.007
43	18 Jan	10:17:23	0.005
44	18 Jan	10:18:23	0.005
45	18 Jan	10:19:23	0.005
46	18 Jan	10:20:23	0.007
47	18 Jan	10:21:23	0.003
48	18 Jan	10:22:23	0.005
49	18 Jan	10:23:23	0.003
50	18 Jan	10:24:23	0.004
51	18 Jan	10:25:23	0.004
52	18 Jan	10:26:23	0.006
53	18 Jan	10:27:23	0.004
54	18 Jan	10:28:23	0.004
55	18 Jan	10:29:23	0.003
56	18 Jan	10:30:23	0.004
57	18 Jan	10:31:23	0.004

58,	18	Jan,	10:32:23,	0.004
59,	18	Jan,	10:33:23,	0.005
60,	18	Jan,	10:34:23,	0.003
61,	18	Jan,	10:35:23,	0.004
62,	18	Jan,	10:36:23,	0.004
63,	18	Jan,	10:37:23,	0.007
64,	18	Jan,	10:38:23,	0.006
65,	18	Jan,	10:39:23,	0.004
66,	18	Jan,	10:40:23,	0.005
67,	18	Jan,	10:41:23,	0.007
68,	18	Jan,	10:42:23,	0.007
69,	18	Jan,	10:43:23,	0.006
70,	18	Jan,	10:44:23,	0.005
71,	18	Jan,	10:45:23,	0.004
72,	18	Jan,	10:46:23,	0.005
73,	18	Jan,	10:47:23,	0.005
74,	18	Jan,	10:48:23,	0.005
75,	18	Jan,	10:49:23,	0.005
76,	18	Jan,	10:50:23,	0.006
77,	18	Jan,	10:51:23,	0.004
78,	18	Jan,	10:52:23,	0.003
79,	18	Jan,	10:53:23,	0.005
80,	18	Jan,	10:54:23,	0.005
81,	18	Jan,	10:55:23,	0.006
82,	18	Jan,	10:56:23,	0.004
83,	18	Jan,	10:57:23,	0.005
84,	18	Jan,	10:58:23,	0.009
85,	18	Jan,	10:59:23,	0.003
86,	18	Jan,	11:00:23,	0.006
87,	18	Jan,	11:01:23,	0.003
88,	18	Jan,	11:02:23,	0.008
89,	18	Jan,	11:03:23,	0.006
90,	18	Jan,	11:04:23,	0.005
91,	18	Jan,	11:05:23,	0.004
92,	18	Jan,	11:06:23,	0.005
93,	18	Jan,	11:07:23,	0.007
94,	18	Jan,	11:08:23,	0.004
95,	18	Jan,	11:09:23,	0.005
96,	18	Jan,	11:10:23,	0.004
97,	18	Jan,	11:11:23,	0.004
98,	18	Jan,	11:12:23,	0.004
99,	18	Jan,	11:13:23,	0.008
100,	18	Jan,	11:14:23,	0.005
101,	18	Jan,	11:15:23,	0.005
102,	18	Jan,	11:16:23,	0.005
103,	18	Jan,	11:17:23,	0.007
104,	18	Jan,	11:18:23,	0.008
105,	18	Jan,	11:19:23,	0.010
106,	18	Jan,	11:20:23,	0.007
107,	18	Jan,	11:21:23,	0.005
108,	18	Jan,	11:22:23,	0.004
109,	18	Jan,	11:23:23,	0.004
110,	18	Jan,	11:24:23,	0.004
111,	18	Jan,	11:25:23,	0.007
112,	18	Jan,	11:26:23,	0.005
113,	18	Jan,	11:27:23,	0.004
114,	18	Jan,	11:28:23,	0.004
115,	18	Jan,	11:29:23,	0.003
116,	18	Jan,	11:30:23,	0.004
117,	18	Jan,	11:31:23,	0.008
118,	18	Jan,	11:32:23,	0.004
119,	18	Jan,	11:33:23,	0.003
120,	18	Jan,	11:34:23,	0.003
121,	18	Jan,	11:35:23,	0.003
122,	18	Jan,	11:36:23,	0.005
123,	18	Jan,	11:37:23,	0.003
124,	18	Jan,	11:38:23,	0.003
125,	18	Jan,	11:39:23,	0.003
126,	18	Jan,	11:40:23,	0.003
127,	18	Jan,	11:41:23,	0.003
128,	18	Jan,	11:42:23,	0.004

129, 18 Jan, 11:43:23, 0.007
130, 18 Jan, 11:44:23, 0.005
131, 18 Jan, 11:45:23, 0.006
132, 18 Jan, 11:46:23, 0.004
133, 18 Jan, 11:47:23, 0.004
134, 18 Jan, 11:48:23, 0.005
135, 18 Jan, 11:49:23, 0.003
136, 18 Jan, 11:50:23, 0.005
137, 18 Jan, 11:51:23, 0.034
138, 18 Jan, 11:52:23, 0.005
139, 18 Jan, 11:53:23, 0.004
140, 18 Jan, 11:54:23, 0.004
141, 18 Jan, 11:55:23, 0.004
142, 18 Jan, 11:56:23, 0.004
143, 18 Jan, 11:57:23, 0.004
144, 18 Jan, 11:58:23, 0.005
145, 18 Jan, 11:59:23, 0.003
146, 18 Jan, 12:00:23, 0.003
147, 18 Jan, 12:01:23, 0.004
148, 18 Jan, 12:02:23, 0.007
149, 18 Jan, 12:03:23, 0.006
150, 18 Jan, 12:04:23, 0.007
151, 18 Jan, 12:05:23, 0.003
152, 18 Jan, 12:06:23, 0.007
153, 18 Jan, 12:07:23, 0.006
154, 18 Jan, 12:08:23, 0.008
155, 18 Jan, 12:09:23, 0.004
156, 18 Jan, 12:10:23, 0.006
157, 18 Jan, 12:11:23, 0.008
158, 18 Jan, 12:12:23, 0.004
159, 18 Jan, 12:13:23, 0.007
160, 18 Jan, 12:14:23, 0.007
161, 18 Jan, 12:15:23, 0.006
162, 18 Jan, 12:16:23, 0.005
163, 18 Jan, 12:17:23, 0.006
164, 18 Jan, 12:18:23, 0.007
165, 18 Jan, 12:19:23, 0.004
166, 18 Jan, 12:20:23, 0.008
167, 18 Jan, 12:21:23, 0.014
168, 18 Jan, 12:22:23, 0.005
169, 18 Jan, 12:23:23, 0.005
170, 18 Jan, 12:24:23, 0.004
171, 18 Jan, 12:25:23, 0.005
172, 18 Jan, 12:26:23, 0.006
173, 18 Jan, 12:27:23, 0.006
174, 18 Jan, 12:28:23, 0.005
175, 18 Jan, 12:29:23, 0.005
176, 18 Jan, 12:30:23, 0.003
177, 18 Jan, 12:31:23, 0.005
178, 18 Jan, 12:32:23, 0.005
179, 18 Jan, 12:33:23, 0.003
180, 18 Jan, 12:34:23, 0.009
181, 18 Jan, 12:35:23, 0.005
182, 18 Jan, 12:36:23, 0.006
183, 18 Jan, 12:37:23, 0.006
184, 18 Jan, 12:38:23, 0.004
185, 18 Jan, 12:39:23, 0.005
186, 18 Jan, 12:40:23, 0.004
187, 18 Jan, 12:41:23, 0.007
188, 18 Jan, 12:42:23, 0.004
189, 18 Jan, 12:43:23, 0.005
190, 18 Jan, 12:44:23, 0.004
191, 18 Jan, 12:45:23, 0.007
192, 18 Jan, 12:46:23, 0.005
193, 18 Jan, 12:47:23, 0.006
194, 18 Jan, 12:48:23, 0.005
195, 18 Jan, 12:49:23, 0.007
196, 18 Jan, 12:50:23, 0.006
197, 18 Jan, 12:51:23, 0.006
198, 18 Jan, 12:52:23, 0.004
199, 18 Jan, 12:53:23, 0.005

200, 18 Jan, 12:54:23, 0.006
201, 18 Jan, 12:55:23, 0.005
202, 18 Jan, 12:56:23, 0.006
203, 18 Jan, 12:57:23, 0.006
204, 18 Jan, 12:58:23, 0.008
205, 18 Jan, 12:59:23, 0.006
206, 18 Jan, 13:00:23, 0.008
207, 18 Jan, 13:01:23, 0.006
208, 18 Jan, 13:02:23, 0.009
209, 18 Jan, 13:03:23, 0.009
210, 18 Jan, 13:04:23, 0.003
211, 18 Jan, 13:05:23, 0.005
212, 18 Jan, 13:06:23, 0.005
213, 18 Jan, 13:07:23, 0.005
214, 18 Jan, 13:08:23, 0.005
215, 18 Jan, 13:09:23, 0.006
216, 18 Jan, 13:10:23, 0.010
217, 18 Jan, 13:11:23, 0.006
218, 18 Jan, 13:12:23, 0.009
219, 18 Jan, 13:13:23, 0.005
220, 18 Jan, 13:14:23, 0.006
221, 18 Jan, 13:15:23, 0.009
222, 18 Jan, 13:16:23, 0.006
223, 18 Jan, 13:17:23, 0.005
224, 18 Jan, 13:18:23, 0.005
225, 18 Jan, 13:19:23, 0.009
226, 18 Jan, 13:20:23, 0.005
227, 18 Jan, 13:21:23, 0.007
228, 18 Jan, 13:22:23, 0.007
229, 18 Jan, 13:23:23, 0.007
230, 18 Jan, 13:24:23, 0.008
231, 18 Jan, 13:25:23, 0.007
232, 18 Jan, 13:26:23, 0.008
233, 18 Jan, 13:27:23, 0.007
234, 18 Jan, 13:28:23, 0.006
235, 18 Jan, 13:29:23, 0.008
236, 18 Jan, 13:30:23, 0.009
237, 18 Jan, 13:31:23, 0.007
238, 18 Jan, 13:32:23, 0.006
239, 18 Jan, 13:33:23, 0.008
240, 18 Jan, 13:34:23, 0.004
241, 18 Jan, 13:35:23, 0.006
242, 18 Jan, 13:36:23, 0.005
243, 18 Jan, 13:37:23, 0.009
244, 18 Jan, 13:38:23, 0.007
245, 18 Jan, 13:39:23, 0.006
246, 18 Jan, 13:40:23, 0.007
247, 18 Jan, 13:41:23, 0.004
248, 18 Jan, 13:42:23, 0.004
249, 18 Jan, 13:43:23, 0.005
250, 18 Jan, 13:44:23, 0.004
251, 18 Jan, 13:45:23, 0.004
252, 18 Jan, 13:46:23, 0.005
253, 18 Jan, 13:47:23, 0.004
254, 18 Jan, 13:48:23, 0.005
255, 18 Jan, 13:49:23, 0.004
256, 18 Jan, 13:50:23, 0.004
257, 18 Jan, 13:51:23, 0.004
258, 18 Jan, 13:52:23, 0.004
259, 18 Jan, 13:53:23, 0.005
260, 18 Jan, 13:54:23, 0.005
261, 18 Jan, 13:55:23, 0.006
262, 18 Jan, 13:56:23, 0.003


pDR-1000 / Tag # 31 / Start time: Jan 19, 08:51:17
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:00
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
10:30
Time (pDR)


0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
11:20
11:30
Time (pDR)

pDR-1000
Tag Number: 31
Number of logged points: 355
Start time and date: 08:51:17 19-Jan
Elapsed time: 05:55:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.175 mg/m³
Time at maximum: 14:27:28 Jan 19
Max STEL Concentration: 0.017 mg/m³
Time at max STEL: 14:27:48 Jan 19
Overall Avg Conc: 0.009 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	19 Jan	08:52:17	0.006
2	19 Jan	08:53:17	0.006
3	19 Jan	08:54:17	0.007
4	19 Jan	08:55:17	0.007
5	19 Jan	08:56:17	0.008
6	19 Jan	08:57:17	0.009
7	19 Jan	08:58:17	0.007
8	19 Jan	08:59:17	0.006
9	19 Jan	09:00:17	0.003
10	19 Jan	09:01:17	0.008
11	19 Jan	09:02:17	0.017
12	19 Jan	09:03:17	0.019
13	19 Jan	09:04:17	0.008
14	19 Jan	09:05:17	0.007
15	19 Jan	09:06:17	0.014
16	19 Jan	09:07:17	0.014
17	19 Jan	09:08:17	0.020
18	19 Jan	09:09:17	0.016
19	19 Jan	09:10:17	0.009
20	19 Jan	09:11:17	0.006
21	19 Jan	09:12:17	0.008
22	19 Jan	09:13:17	0.007
23	19 Jan	09:14:17	0.014
24	19 Jan	09:15:17	0.007
25	19 Jan	09:16:17	0.009
26	19 Jan	09:17:17	0.009
27	19 Jan	09:18:17	0.007
28	19 Jan	09:19:17	0.009
29	19 Jan	09:20:17	0.005
30	19 Jan	09:21:17	0.005
31	19 Jan	09:22:17	0.003
32	19 Jan	09:23:17	0.005
33	19 Jan	09:24:17	0.006
34	19 Jan	09:25:17	0.006
35	19 Jan	09:26:17	0.007
36	19 Jan	09:27:17	0.006
37	19 Jan	09:28:17	0.008
38	19 Jan	09:29:17	0.006
39	19 Jan	09:30:17	0.007
40	19 Jan	09:31:17	0.006
41	19 Jan	09:32:17	0.008
42	19 Jan	09:33:17	0.007
43	19 Jan	09:34:17	0.004
44	19 Jan	09:35:17	0.003
45	19 Jan	09:36:17	0.005
46	19 Jan	09:37:17	0.007
47	19 Jan	09:38:17	0.007
48	19 Jan	09:39:17	0.007
49	19 Jan	09:40:17	0.006
50	19 Jan	09:41:17	0.006
51	19 Jan	09:42:17	0.011
52	19 Jan	09:43:17	0.013
53	19 Jan	09:44:17	0.007
54	19 Jan	09:45:17	0.012
55	19 Jan	09:46:17	0.013
56	19 Jan	09:47:17	0.007
57	19 Jan	09:48:17	0.006

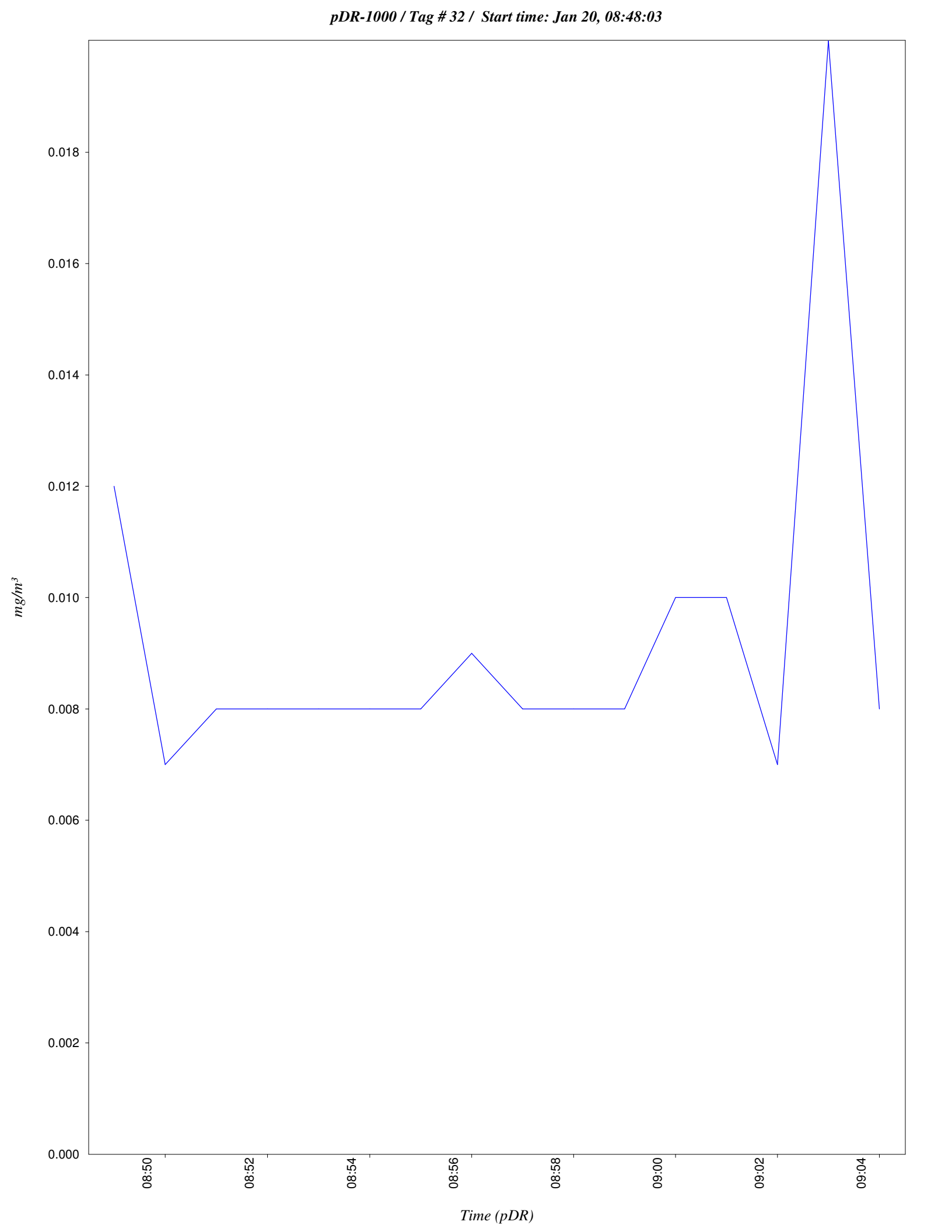
58,	19	Jan,	09:49:17,	0.009
59,	19	Jan,	09:50:17,	0.013
60,	19	Jan,	09:51:17,	0.015
61,	19	Jan,	09:52:17,	0.008
62,	19	Jan,	09:53:17,	0.007
63,	19	Jan,	09:54:17,	0.006
64,	19	Jan,	09:55:17,	0.011
65,	19	Jan,	09:56:17,	0.013
66,	19	Jan,	09:57:17,	0.016
67,	19	Jan,	09:58:17,	0.021
68,	19	Jan,	09:59:17,	0.018
69,	19	Jan,	10:00:17,	0.011
70,	19	Jan,	10:01:17,	0.006
71,	19	Jan,	10:02:17,	0.013
72,	19	Jan,	10:03:17,	0.011
73,	19	Jan,	10:04:17,	0.005
74,	19	Jan,	10:05:17,	0.008
75,	19	Jan,	10:06:17,	0.006
76,	19	Jan,	10:07:17,	0.011
77,	19	Jan,	10:08:17,	0.010
78,	19	Jan,	10:09:17,	0.009
79,	19	Jan,	10:10:17,	0.007
80,	19	Jan,	10:11:17,	0.005
81,	19	Jan,	10:12:17,	0.004
82,	19	Jan,	10:13:17,	0.007
83,	19	Jan,	10:14:17,	0.008
84,	19	Jan,	10:15:17,	0.007
85,	19	Jan,	10:16:17,	0.008
86,	19	Jan,	10:17:17,	0.006
87,	19	Jan,	10:18:17,	0.007
88,	19	Jan,	10:19:17,	0.008
89,	19	Jan,	10:20:17,	0.009
90,	19	Jan,	10:21:17,	0.005
91,	19	Jan,	10:22:17,	0.006
92,	19	Jan,	10:23:17,	0.004
93,	19	Jan,	10:24:17,	0.006
94,	19	Jan,	10:25:17,	0.005
95,	19	Jan,	10:26:17,	0.006
96,	19	Jan,	10:27:17,	0.006
97,	19	Jan,	10:28:17,	0.018
98,	19	Jan,	10:29:17,	0.014
99,	19	Jan,	10:30:17,	0.011
100,	19	Jan,	10:31:17,	0.006
101,	19	Jan,	10:32:17,	0.007
102,	19	Jan,	10:33:17,	0.008
103,	19	Jan,	10:34:17,	0.007
104,	19	Jan,	10:35:17,	0.009
105,	19	Jan,	10:36:17,	0.006
106,	19	Jan,	10:37:17,	0.016
107,	19	Jan,	10:38:17,	0.005
108,	19	Jan,	10:39:17,	0.008
109,	19	Jan,	10:40:17,	0.006
110,	19	Jan,	10:41:17,	0.011
111,	19	Jan,	10:42:17,	0.007
112,	19	Jan,	10:43:17,	0.005
113,	19	Jan,	10:44:17,	0.005
114,	19	Jan,	10:45:17,	0.010
115,	19	Jan,	10:46:17,	0.007
116,	19	Jan,	10:47:17,	0.007
117,	19	Jan,	10:48:17,	0.004
118,	19	Jan,	10:49:17,	0.005
119,	19	Jan,	10:50:17,	0.005
120,	19	Jan,	10:51:17,	0.004
121,	19	Jan,	10:52:17,	0.005
122,	19	Jan,	10:53:17,	0.007
123,	19	Jan,	10:54:17,	0.023
124,	19	Jan,	10:55:17,	0.007
125,	19	Jan,	10:56:17,	0.010
126,	19	Jan,	10:57:17,	0.007
127,	19	Jan,	10:58:17,	0.006
128,	19	Jan,	10:59:17,	0.007

129, 19 Jan, 11:00:17, 0.009
130, 19 Jan, 11:01:17, 0.027
131, 19 Jan, 11:02:17, 0.016
132, 19 Jan, 11:03:17, 0.009
133, 19 Jan, 11:04:17, 0.005
134, 19 Jan, 11:05:17, 0.005
135, 19 Jan, 11:06:17, 0.006
136, 19 Jan, 11:07:17, 0.006
137, 19 Jan, 11:08:17, 0.005
138, 19 Jan, 11:09:17, 0.005
139, 19 Jan, 11:10:17, 0.005
140, 19 Jan, 11:11:17, 0.006
141, 19 Jan, 11:12:17, 0.014
142, 19 Jan, 11:13:17, 0.016
143, 19 Jan, 11:14:17, 0.008
144, 19 Jan, 11:15:17, 0.006
145, 19 Jan, 11:16:17, 0.007
146, 19 Jan, 11:17:17, 0.004
147, 19 Jan, 11:18:17, 0.007
148, 19 Jan, 11:19:17, 0.007
149, 19 Jan, 11:20:17, 0.010
150, 19 Jan, 11:21:17, 0.009
151, 19 Jan, 11:22:17, 0.006
152, 19 Jan, 11:23:17, 0.006
153, 19 Jan, 11:24:17, 0.004
154, 19 Jan, 11:25:17, 0.004
155, 19 Jan, 11:26:17, 0.005
156, 19 Jan, 11:27:17, 0.005
157, 19 Jan, 11:28:17, 0.007
158, 19 Jan, 11:29:17, 0.008
159, 19 Jan, 11:30:17, 0.010
160, 19 Jan, 11:31:17, 0.007
161, 19 Jan, 11:32:17, 0.007
162, 19 Jan, 11:33:17, 0.007
163, 19 Jan, 11:34:17, 0.010
164, 19 Jan, 11:35:17, 0.008
165, 19 Jan, 11:36:17, 0.012
166, 19 Jan, 11:37:17, 0.010
167, 19 Jan, 11:38:17, 0.005
168, 19 Jan, 11:39:17, 0.015
169, 19 Jan, 11:40:17, 0.008
170, 19 Jan, 11:41:17, 0.007
171, 19 Jan, 11:42:17, 0.006
172, 19 Jan, 11:43:17, 0.007
173, 19 Jan, 11:44:17, 0.015
174, 19 Jan, 11:45:17, 0.011
175, 19 Jan, 11:46:17, 0.006
176, 19 Jan, 11:47:17, 0.006
177, 19 Jan, 11:48:17, 0.005
178, 19 Jan, 11:49:17, 0.009
179, 19 Jan, 11:50:17, 0.007
180, 19 Jan, 11:51:17, 0.010
181, 19 Jan, 11:52:17, 0.006
182, 19 Jan, 11:53:17, 0.006
183, 19 Jan, 11:54:17, 0.008
184, 19 Jan, 11:55:17, 0.008
185, 19 Jan, 11:56:17, 0.009
186, 19 Jan, 11:57:17, 0.009
187, 19 Jan, 11:58:17, 0.009
188, 19 Jan, 11:59:17, 0.006
189, 19 Jan, 12:00:17, 0.009
190, 19 Jan, 12:01:17, 0.007
191, 19 Jan, 12:02:17, 0.009
192, 19 Jan, 12:03:17, 0.005
193, 19 Jan, 12:04:17, 0.008
194, 19 Jan, 12:05:17, 0.005
195, 19 Jan, 12:06:17, 0.006
196, 19 Jan, 12:07:17, 0.006
197, 19 Jan, 12:08:17, 0.009
198, 19 Jan, 12:09:17, 0.004
199, 19 Jan, 12:10:17, 0.011

200, 19 Jan, 12:11:17, 0.010
201, 19 Jan, 12:12:17, 0.010
202, 19 Jan, 12:13:17, 0.008
203, 19 Jan, 12:14:17, 0.009
204, 19 Jan, 12:15:17, 0.005
205, 19 Jan, 12:16:17, 0.006
206, 19 Jan, 12:17:17, 0.007
207, 19 Jan, 12:18:17, 0.007
208, 19 Jan, 12:19:17, 0.010
209, 19 Jan, 12:20:17, 0.005
210, 19 Jan, 12:21:17, 0.005
211, 19 Jan, 12:22:17, 0.006
212, 19 Jan, 12:23:17, 0.005
213, 19 Jan, 12:24:17, 0.005
214, 19 Jan, 12:25:17, 0.008
215, 19 Jan, 12:26:17, 0.008
216, 19 Jan, 12:27:17, 0.008
217, 19 Jan, 12:28:17, 0.007
218, 19 Jan, 12:29:17, 0.007
219, 19 Jan, 12:30:17, 0.006
220, 19 Jan, 12:31:17, 0.010
221, 19 Jan, 12:32:17, 0.006
222, 19 Jan, 12:33:17, 0.019
223, 19 Jan, 12:34:17, 0.007
224, 19 Jan, 12:35:17, 0.009
225, 19 Jan, 12:36:17, 0.008
226, 19 Jan, 12:37:17, 0.007
227, 19 Jan, 12:38:17, 0.006
228, 19 Jan, 12:39:17, 0.008
229, 19 Jan, 12:40:17, 0.010
230, 19 Jan, 12:41:17, 0.009
231, 19 Jan, 12:42:17, 0.006
232, 19 Jan, 12:43:17, 0.008
233, 19 Jan, 12:44:17, 0.008
234, 19 Jan, 12:45:17, 0.005
235, 19 Jan, 12:46:17, 0.007
236, 19 Jan, 12:47:17, 0.006
237, 19 Jan, 12:48:17, 0.006
238, 19 Jan, 12:49:17, 0.007
239, 19 Jan, 12:50:17, 0.008
240, 19 Jan, 12:51:17, 0.008
241, 19 Jan, 12:52:17, 0.010
242, 19 Jan, 12:53:17, 0.007
243, 19 Jan, 12:54:17, 0.009
244, 19 Jan, 12:55:17, 0.008
245, 19 Jan, 12:56:17, 0.006
246, 19 Jan, 12:57:17, 0.005
247, 19 Jan, 12:58:17, 0.006
248, 19 Jan, 12:59:17, 0.009
249, 19 Jan, 13:00:17, 0.008
250, 19 Jan, 13:01:17, 0.008
251, 19 Jan, 13:02:17, 0.004
252, 19 Jan, 13:03:17, 0.005
253, 19 Jan, 13:04:17, 0.006
254, 19 Jan, 13:05:17, 0.010
255, 19 Jan, 13:06:17, 0.005
256, 19 Jan, 13:07:17, 0.005
257, 19 Jan, 13:08:17, 0.006
258, 19 Jan, 13:09:17, 0.006
259, 19 Jan, 13:10:17, 0.005
260, 19 Jan, 13:11:17, 0.008
261, 19 Jan, 13:12:17, 0.010
262, 19 Jan, 13:13:17, 0.007
263, 19 Jan, 13:14:17, 0.006
264, 19 Jan, 13:15:17, 0.006
265, 19 Jan, 13:16:17, 0.009
266, 19 Jan, 13:17:17, 0.010
267, 19 Jan, 13:18:17, 0.009
268, 19 Jan, 13:19:17, 0.010
269, 19 Jan, 13:20:17, 0.008
270, 19 Jan, 13:21:17, 0.008

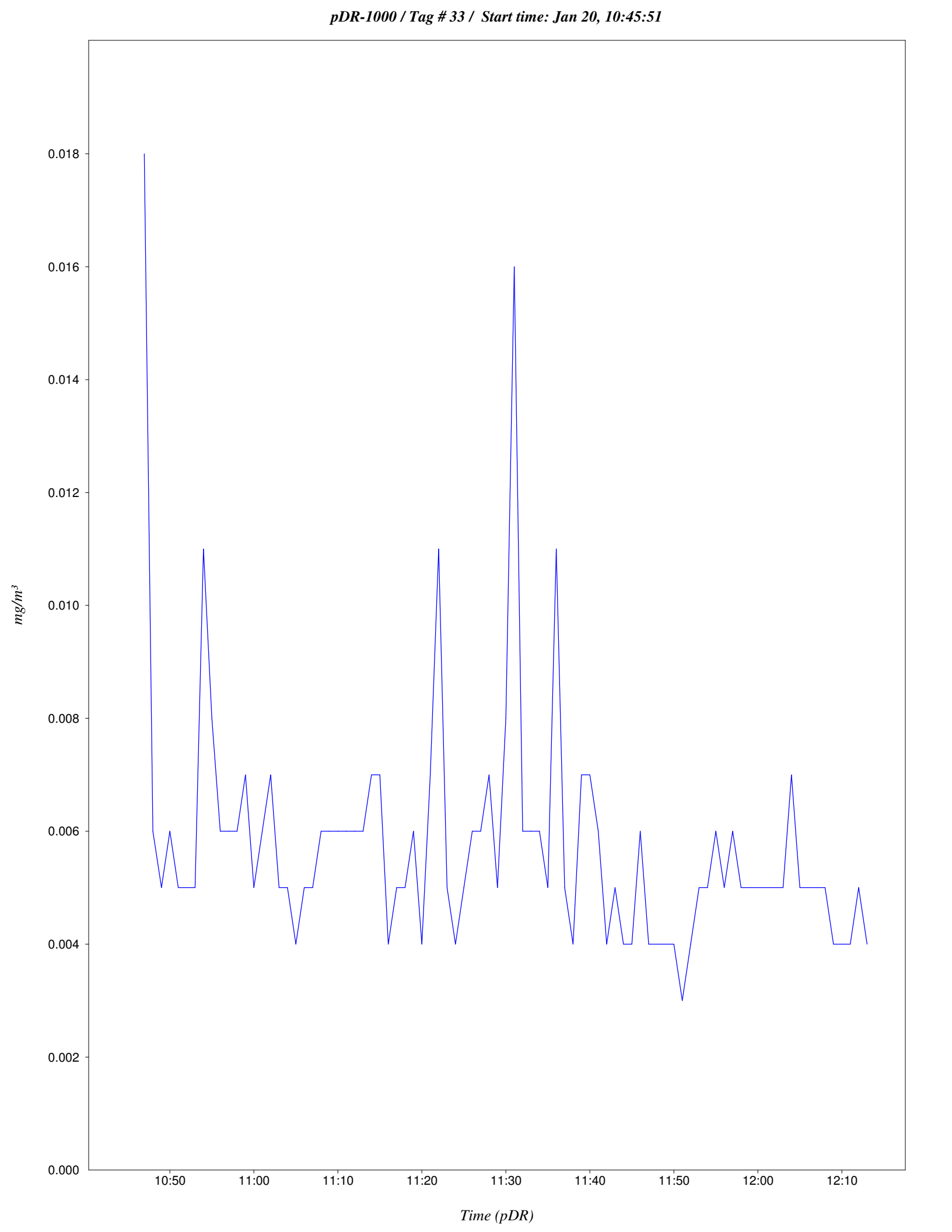
271, 19 Jan, 13:22:17, 0.006
272, 19 Jan, 13:23:17, 0.008
273, 19 Jan, 13:24:17, 0.011
274, 19 Jan, 13:25:17, 0.008
275, 19 Jan, 13:26:17, 0.007
276, 19 Jan, 13:27:17, 0.011
277, 19 Jan, 13:28:17, 0.011
278, 19 Jan, 13:29:17, 0.006
279, 19 Jan, 13:30:17, 0.006
280, 19 Jan, 13:31:17, 0.008
281, 19 Jan, 13:32:17, 0.011
282, 19 Jan, 13:33:17, 0.012
283, 19 Jan, 13:34:17, 0.008
284, 19 Jan, 13:35:17, 0.008
285, 19 Jan, 13:36:17, 0.008
286, 19 Jan, 13:37:17, 0.006
287, 19 Jan, 13:38:17, 0.009
288, 19 Jan, 13:39:17, 0.012
289, 19 Jan, 13:40:17, 0.009
290, 19 Jan, 13:41:17, 0.007
291, 19 Jan, 13:42:17, 0.008
292, 19 Jan, 13:43:17, 0.008
293, 19 Jan, 13:44:17, 0.010
294, 19 Jan, 13:45:17, 0.008
295, 19 Jan, 13:46:17, 0.010
296, 19 Jan, 13:47:17, 0.006
297, 19 Jan, 13:48:17, 0.010
298, 19 Jan, 13:49:17, 0.012
299, 19 Jan, 13:50:17, 0.017
300, 19 Jan, 13:51:17, 0.016
301, 19 Jan, 13:52:17, 0.006
302, 19 Jan, 13:53:17, 0.010
303, 19 Jan, 13:54:17, 0.006
304, 19 Jan, 13:55:17, 0.010
305, 19 Jan, 13:56:17, 0.005
306, 19 Jan, 13:57:17, 0.009
307, 19 Jan, 13:58:17, 0.007
308, 19 Jan, 13:59:17, 0.007
309, 19 Jan, 14:00:17, 0.006
310, 19 Jan, 14:01:17, 0.007
311, 19 Jan, 14:02:17, 0.006
312, 19 Jan, 14:03:17, 0.008
313, 19 Jan, 14:04:17, 0.005
314, 19 Jan, 14:05:17, 0.007
315, 19 Jan, 14:06:17, 0.012
316, 19 Jan, 14:07:17, 0.009
317, 19 Jan, 14:08:17, 0.018
318, 19 Jan, 14:09:17, 0.013
319, 19 Jan, 14:10:17, 0.009
320, 19 Jan, 14:11:17, 0.009
321, 19 Jan, 14:12:17, 0.016
322, 19 Jan, 14:13:17, 0.008
323, 19 Jan, 14:14:17, 0.017
324, 19 Jan, 14:15:17, 0.043
325, 19 Jan, 14:16:17, 0.018
326, 19 Jan, 14:17:17, 0.006
327, 19 Jan, 14:18:17, 0.008
328, 19 Jan, 14:19:17, 0.008
329, 19 Jan, 14:20:17, 0.013
330, 19 Jan, 14:21:17, 0.009
331, 19 Jan, 14:22:17, 0.008
332, 19 Jan, 14:23:17, 0.011
333, 19 Jan, 14:24:17, 0.006
334, 19 Jan, 14:25:17, 0.009
335, 19 Jan, 14:26:17, 0.020
336, 19 Jan, 14:27:17, 0.030
337, 19 Jan, 14:28:17, 0.046
338, 19 Jan, 14:29:17, 0.007
339, 19 Jan, 14:30:17, 0.007
340, 19 Jan, 14:31:17, 0.019
341, 19 Jan, 14:32:17, 0.017

342, 19 Jan, 14:33:17, 0.009
343, 19 Jan, 14:34:17, 0.006
344, 19 Jan, 14:35:17, 0.006
345, 19 Jan, 14:36:17, 0.006
346, 19 Jan, 14:37:17, 0.010
347, 19 Jan, 14:38:17, 0.016
348, 19 Jan, 14:39:17, 0.012
349, 19 Jan, 14:40:17, 0.020
350, 19 Jan, 14:41:17, 0.009
351, 19 Jan, 14:42:17, 0.012
352, 19 Jan, 14:43:17, 0.008
353, 19 Jan, 14:44:17, 0.006
354, 19 Jan, 14:45:17, 0.006
355, 19 Jan, 14:46:17, 0.006


pDR-1000 / Tag # 32 / Start time: Jan 20, 08:48:03
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
08:50
08:52
08:54
08:56
08:58
09:00
09:02
09:04
Time (pDR)

pDR-1000
Tag Number: 32
Number of logged points: 16
Start time and date: 08:48:03 20-Jan
Elapsed time: 00:16:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.064 mg/m³
Time at maximum: 09:02:13 Jan 20
Max STEL Concentration: 0.009 mg/m³
Time at max STEL: 09:02:33 Jan 20
Overall Avg Conc: 0.009 mg/m³
Logged Data:

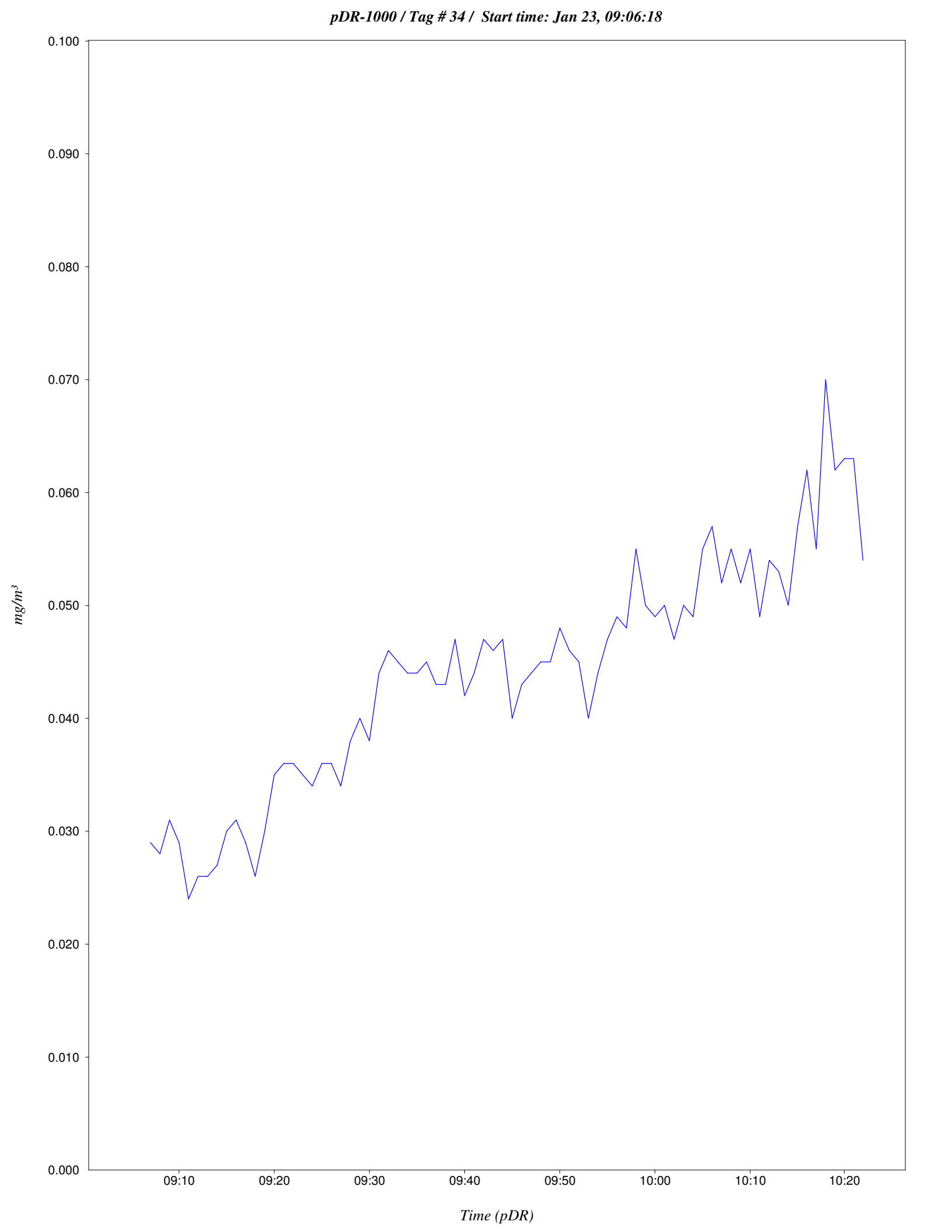
Point	Date	Time	Avg.(mg/m³)
1	20 Jan	08:49:03	0.012
2	20 Jan	08:50:03	0.007
3	20 Jan	08:51:03	0.008
4	20 Jan	08:52:03	0.008
5	20 Jan	08:53:03	0.008
6	20 Jan	08:54:03	0.008
7	20 Jan	08:55:03	0.008
8	20 Jan	08:56:03	0.009
9	20 Jan	08:57:03	0.008
10	20 Jan	08:58:03	0.008
11	20 Jan	08:59:03	0.008
12	20 Jan	09:00:03	0.010
13	20 Jan	09:01:03	0.010
14	20 Jan	09:02:03	0.007
15	20 Jan	09:03:03	0.020
16	20 Jan	09:04:03	0.008


pDR-1000 / Tag # 33 / Start time: Jan 20, 10:45:51
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
10:50
11:00
11:10
11:20
11:30
11:40
11:50
12:00
12:10
Time (pDR)

pDR-1000
Tag Number: 33
Number of logged points: 87
Start time and date: 10:45:51 20-Jan
Elapsed time: 01:27:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.068 mg/m³
Time at maximum: 10:46:34 Jan 20
Max STEL Concentration: 0.007 mg/m³
Time at max STEL: 10:59:51 Jan 20
Overall Avg Conc: 0.006 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	20 Jan	10:46:51	0.018
2	20 Jan	10:47:51	0.006
3	20 Jan	10:48:51	0.005
4	20 Jan	10:49:51	0.006
5	20 Jan	10:50:51	0.005
6	20 Jan	10:51:51	0.005
7	20 Jan	10:52:51	0.005
8	20 Jan	10:53:51	0.011
9	20 Jan	10:54:51	0.008
10	20 Jan	10:55:51	0.006
11	20 Jan	10:56:51	0.006
12	20 Jan	10:57:51	0.006
13	20 Jan	10:58:51	0.007
14	20 Jan	10:59:51	0.005
15	20 Jan	11:00:51	0.006
16	20 Jan	11:01:51	0.007
17	20 Jan	11:02:51	0.005
18	20 Jan	11:03:51	0.005
19	20 Jan	11:04:51	0.004
20	20 Jan	11:05:51	0.005
21	20 Jan	11:06:51	0.005
22	20 Jan	11:07:51	0.006
23	20 Jan	11:08:51	0.006
24	20 Jan	11:09:51	0.006
25	20 Jan	11:10:51	0.006
26	20 Jan	11:11:51	0.006
27	20 Jan	11:12:51	0.006
28	20 Jan	11:13:51	0.007
29	20 Jan	11:14:51	0.007
30	20 Jan	11:15:51	0.004
31	20 Jan	11:16:51	0.005
32	20 Jan	11:17:51	0.005
33	20 Jan	11:18:51	0.006
34	20 Jan	11:19:51	0.004
35	20 Jan	11:20:51	0.007
36	20 Jan	11:21:51	0.011
37	20 Jan	11:22:51	0.005
38	20 Jan	11:23:51	0.004
39	20 Jan	11:24:51	0.005
40	20 Jan	11:25:51	0.006
41	20 Jan	11:26:51	0.006
42	20 Jan	11:27:51	0.007
43	20 Jan	11:28:51	0.005
44	20 Jan	11:29:51	0.008
45	20 Jan	11:30:51	0.016
46	20 Jan	11:31:51	0.006
47	20 Jan	11:32:51	0.006
48	20 Jan	11:33:51	0.006
49	20 Jan	11:34:51	0.005
50	20 Jan	11:35:51	0.011
51	20 Jan	11:36:51	0.005
52	20 Jan	11:37:51	0.004
53	20 Jan	11:38:51	0.007
54	20 Jan	11:39:51	0.007
55	20 Jan	11:40:51	0.006
56	20 Jan	11:41:51	0.004
57	20 Jan	11:42:51	0.005

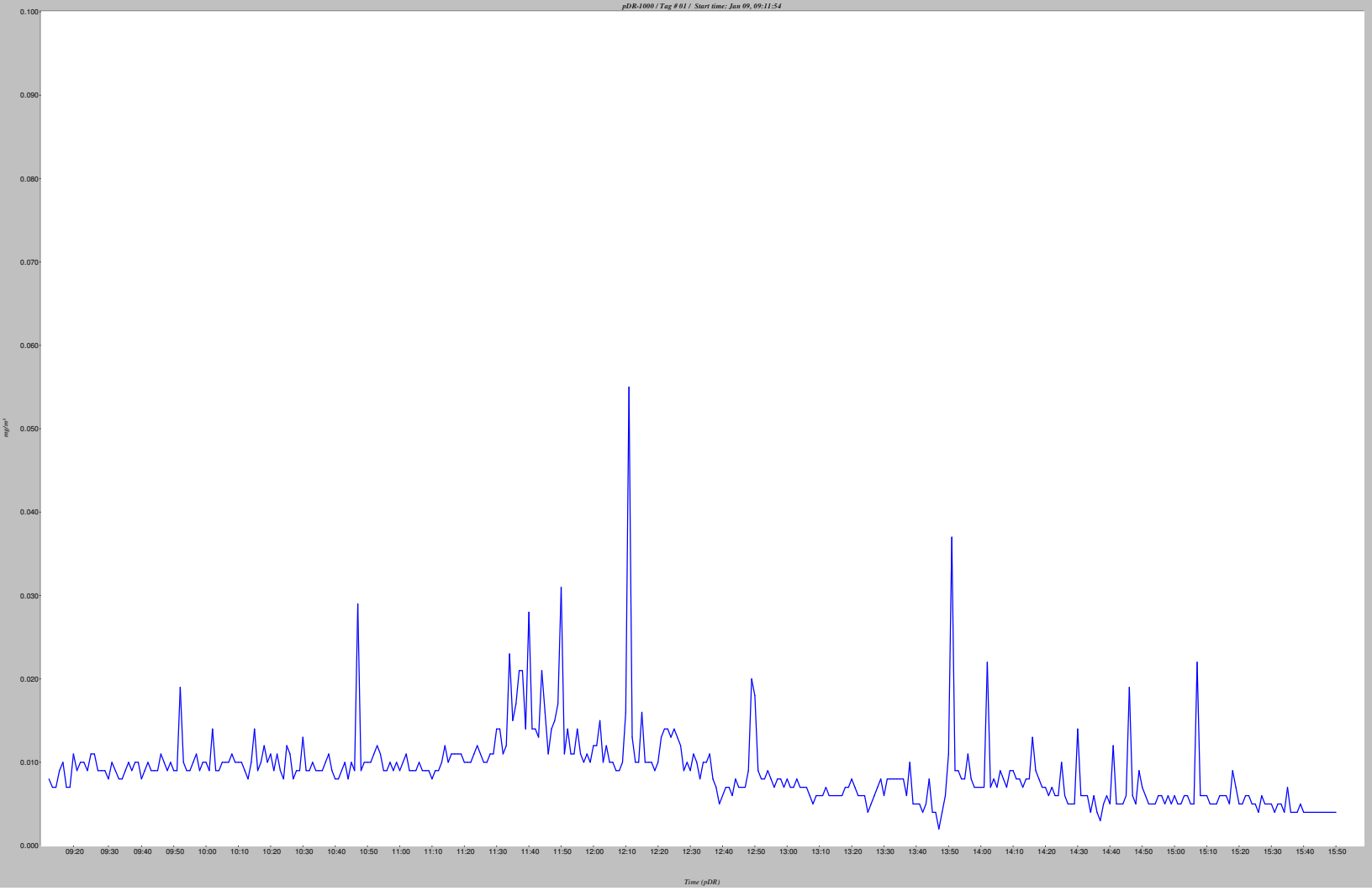
58, 20 Jan, 11:43:51, 0.004
59, 20 Jan, 11:44:51, 0.004
60, 20 Jan, 11:45:51, 0.006
61, 20 Jan, 11:46:51, 0.004
62, 20 Jan, 11:47:51, 0.004
63, 20 Jan, 11:48:51, 0.004
64, 20 Jan, 11:49:51, 0.004
65, 20 Jan, 11:50:51, 0.003
66, 20 Jan, 11:51:51, 0.004
67, 20 Jan, 11:52:51, 0.005
68, 20 Jan, 11:53:51, 0.005
69, 20 Jan, 11:54:51, 0.006
70, 20 Jan, 11:55:51, 0.005
71, 20 Jan, 11:56:51, 0.006
72, 20 Jan, 11:57:51, 0.005
73, 20 Jan, 11:58:51, 0.005
74, 20 Jan, 11:59:51, 0.005
75, 20 Jan, 12:00:51, 0.005
76, 20 Jan, 12:01:51, 0.005
77, 20 Jan, 12:02:51, 0.005
78, 20 Jan, 12:03:51, 0.007
79, 20 Jan, 12:04:51, 0.005
80, 20 Jan, 12:05:51, 0.005
81, 20 Jan, 12:06:51, 0.005
82, 20 Jan, 12:07:51, 0.005
83, 20 Jan, 12:08:51, 0.004
84, 20 Jan, 12:09:51, 0.004
85, 20 Jan, 12:10:51, 0.004
86, 20 Jan, 12:11:51, 0.005
87, 20 Jan, 12:12:51, 0.004


pDR-1000 / Tag # 34 / Start time: Jan 23, 09:06:18
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
Time (pDR)

pDR-1000
Tag Number: 34
Number of logged points: 76
Start time and date: 09:06:18 23-Jan
Elapsed time: 01:16:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.107 mg/m³
Time at maximum: 10:18:09 Jan 23
Max STEL Concentration: 0.057 mg/m³
Time at max STEL: 10:20:48 Jan 23
Overall Avg Conc: 0.044 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	23 Jan	09:07:18	0.029
2	23 Jan	09:08:18	0.028
3	23 Jan	09:09:18	0.031
4	23 Jan	09:10:18	0.029
5	23 Jan	09:11:18	0.024
6	23 Jan	09:12:18	0.026
7	23 Jan	09:13:18	0.026
8	23 Jan	09:14:18	0.027
9	23 Jan	09:15:18	0.030
10	23 Jan	09:16:18	0.031
11	23 Jan	09:17:18	0.029
12	23 Jan	09:18:18	0.026
13	23 Jan	09:19:18	0.030
14	23 Jan	09:20:18	0.035
15	23 Jan	09:21:18	0.036
16	23 Jan	09:22:18	0.036
17	23 Jan	09:23:18	0.035
18	23 Jan	09:24:18	0.034
19	23 Jan	09:25:18	0.036
20	23 Jan	09:26:18	0.036
21	23 Jan	09:27:18	0.034
22	23 Jan	09:28:18	0.038
23	23 Jan	09:29:18	0.040
24	23 Jan	09:30:18	0.038
25	23 Jan	09:31:18	0.044
26	23 Jan	09:32:18	0.046
27	23 Jan	09:33:18	0.045
28	23 Jan	09:34:18	0.044
29	23 Jan	09:35:18	0.044
30	23 Jan	09:36:18	0.045
31	23 Jan	09:37:18	0.043
32	23 Jan	09:38:18	0.043
33	23 Jan	09:39:18	0.047
34	23 Jan	09:40:18	0.042
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39	23 Jan	09:45:18	0.040
40	23 Jan	09:46:18	0.043
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42	23 Jan	09:48:18	0.045
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55	23 Jan	10:01:18	0.050
56	23 Jan	10:02:18	0.047
57	23 Jan	10:03:18	0.050

58, 23 Jan, 10:04:18, 0.049
59, 23 Jan, 10:05:18, 0.055
60, 23 Jan, 10:06:18, 0.057
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62, 23 Jan, 10:08:18, 0.055
63, 23 Jan, 10:09:18, 0.052
64, 23 Jan, 10:10:18, 0.055
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67, 23 Jan, 10:13:18, 0.053
68, 23 Jan, 10:14:18, 0.050
69, 23 Jan, 10:15:18, 0.057
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71, 23 Jan, 10:17:18, 0.055
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73, 23 Jan, 10:19:18, 0.062
74, 23 Jan, 10:20:18, 0.063
75, 23 Jan, 10:21:18, 0.063
76, 23 Jan, 10:22:18, 0.054


pDR-1000 / Tag # 01 / Start time: Jan 09, 09:11:54
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:20
09:30
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
11:20
11:30
11:40
11:50
12:00
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
13:30
13:40
13:50
14:00
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
15:40
15:50
Time (pDR)

pDR-1000
Tag Number: 01
Number of logged points: 398
Start time and date: 09:11:54 09-Jan
Elapsed time: 06:38:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.137 mg/m³
Time at maximum: 12:10:02 Jan 09
Max STEL Concentration: 0.018 mg/m³
Time at max STEL: 11:49:24 Jan 09
Overall Avg Conc: 0.009 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	09 Jan	09:12:54	0.008
2	09 Jan	09:13:54	0.007
3	09 Jan	09:14:54	0.007
4	09 Jan	09:15:54	0.009
5	09 Jan	09:16:54	0.010
6	09 Jan	09:17:54	0.007
7	09 Jan	09:18:54	0.007
8	09 Jan	09:19:54	0.011
9	09 Jan	09:20:54	0.009
10	09 Jan	09:21:54	0.010
11	09 Jan	09:22:54	0.010
12	09 Jan	09:23:54	0.009
13	09 Jan	09:24:54	0.011
14	09 Jan	09:25:54	0.011
15	09 Jan	09:26:54	0.009
16	09 Jan	09:27:54	0.009
17	09 Jan	09:28:54	0.009
18	09 Jan	09:29:54	0.008
19	09 Jan	09:30:54	0.010
20	09 Jan	09:31:54	0.009
21	09 Jan	09:32:54	0.008
22	09 Jan	09:33:54	0.008
23	09 Jan	09:34:54	0.009
24	09 Jan	09:35:54	0.010
25	09 Jan	09:36:54	0.009
26	09 Jan	09:37:54	0.010
27	09 Jan	09:38:54	0.010
28	09 Jan	09:39:54	0.008
29	09 Jan	09:40:54	0.009
30	09 Jan	09:41:54	0.010
31	09 Jan	09:42:54	0.009
32	09 Jan	09:43:54	0.009
33	09 Jan	09:44:54	0.009
34	09 Jan	09:45:54	0.011
35	09 Jan	09:46:54	0.010
36	09 Jan	09:47:54	0.009
37	09 Jan	09:48:54	0.010
38	09 Jan	09:49:54	0.009
39	09 Jan	09:50:54	0.009
40	09 Jan	09:51:54	0.019
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43	09 Jan	09:54:54	0.009
44	09 Jan	09:55:54	0.010
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50	09 Jan	10:01:54	0.014
51	09 Jan	10:02:54	0.009
52	09 Jan	10:03:54	0.009
53	09 Jan	10:04:54	0.010
54	09 Jan	10:05:54	0.010
55	09 Jan	10:06:54	0.010
56	09 Jan	10:07:54	0.011
57	09 Jan	10:08:54	0.010

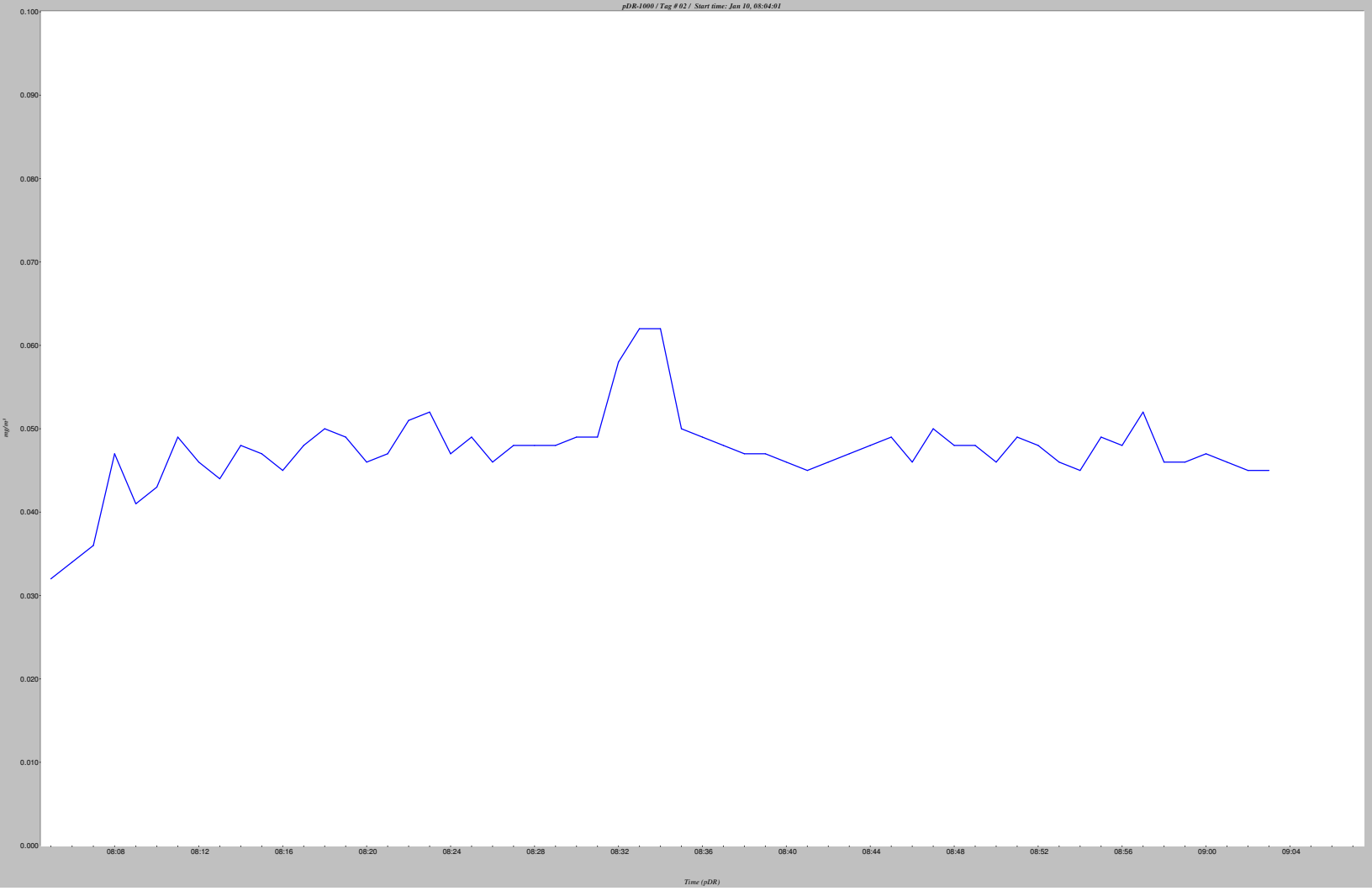
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63,	09	Jan,	10:14:54,	0.014
64,	09	Jan,	10:15:54,	0.009
65,	09	Jan,	10:16:54,	0.010
66,	09	Jan,	10:17:54,	0.012
67,	09	Jan,	10:18:54,	0.010
68,	09	Jan,	10:19:54,	0.011
69,	09	Jan,	10:20:54,	0.009
70,	09	Jan,	10:21:54,	0.011
71,	09	Jan,	10:22:54,	0.009
72,	09	Jan,	10:23:54,	0.008
73,	09	Jan,	10:24:54,	0.012
74,	09	Jan,	10:25:54,	0.011
75,	09	Jan,	10:26:54,	0.008
76,	09	Jan,	10:27:54,	0.009
77,	09	Jan,	10:28:54,	0.009
78,	09	Jan,	10:29:54,	0.013
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81,	09	Jan,	10:32:54,	0.010
82,	09	Jan,	10:33:54,	0.009
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85,	09	Jan,	10:36:54,	0.010
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88,	09	Jan,	10:39:54,	0.008
89,	09	Jan,	10:40:54,	0.008
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91,	09	Jan,	10:42:54,	0.010
92,	09	Jan,	10:43:54,	0.008
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111,	09	Jan,	11:02:54,	0.009
112,	09	Jan,	11:03:54,	0.009
113,	09	Jan,	11:04:54,	0.009
114,	09	Jan,	11:05:54,	0.010
115,	09	Jan,	11:06:54,	0.009
116,	09	Jan,	11:07:54,	0.009
117,	09	Jan,	11:08:54,	0.009
118,	09	Jan,	11:09:54,	0.008
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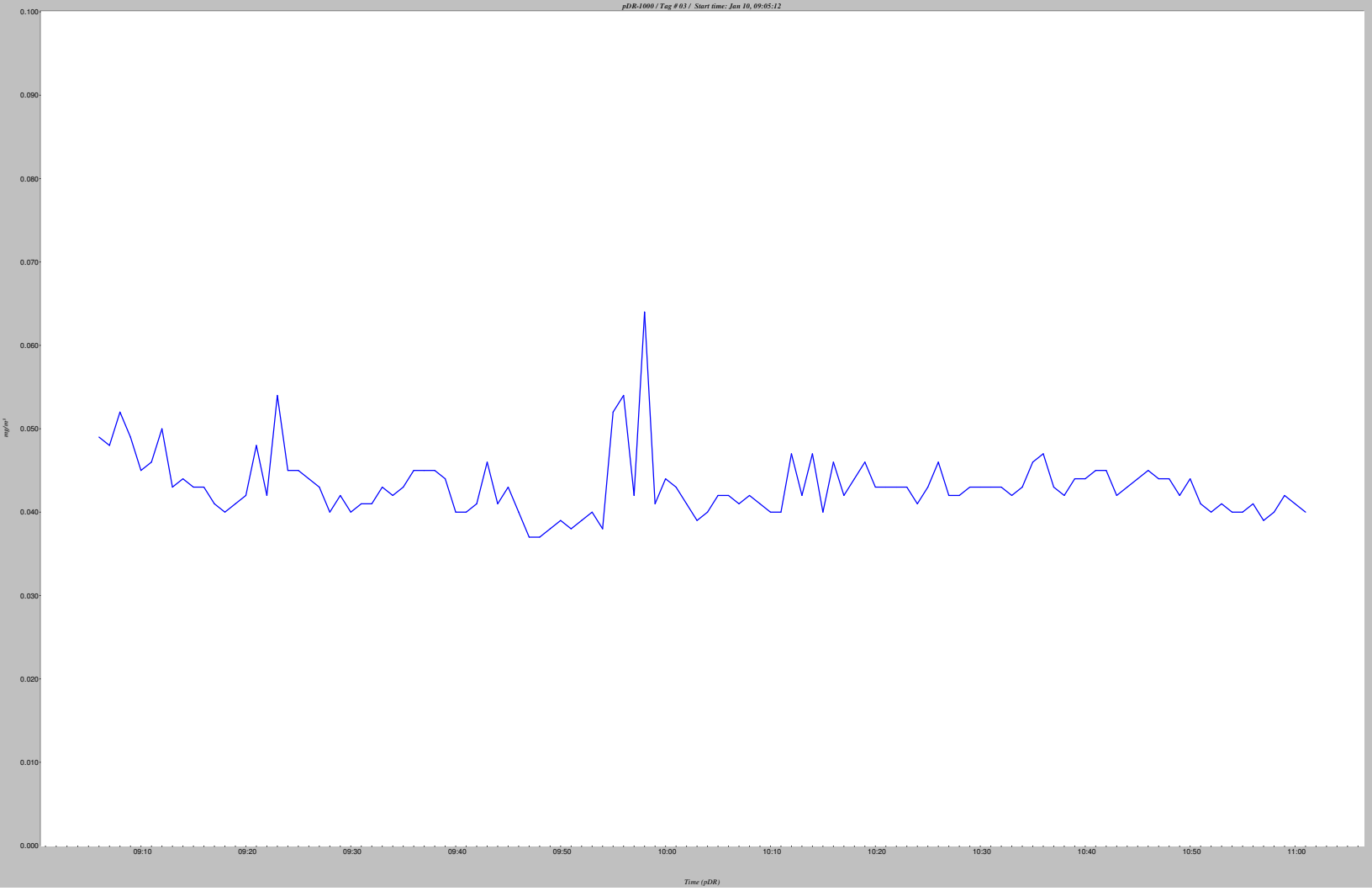
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387, 09 Jan, 15:38:54, 0.005
388, 09 Jan, 15:39:54, 0.004
389, 09 Jan, 15:40:54, 0.004
390, 09 Jan, 15:41:54, 0.004
391, 09 Jan, 15:42:54, 0.004
392, 09 Jan, 15:43:54, 0.004
393, 09 Jan, 15:44:54, 0.004
394, 09 Jan, 15:45:54, 0.004
395, 09 Jan, 15:46:54, 0.004
396, 09 Jan, 15:47:54, 0.004
397, 09 Jan, 15:48:54, 0.004
398, 09 Jan, 15:49:54, 0.004


pDR-1000 / Tag # 02 / Start time: Jan 10, 08:04:01
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
08:08
08:12
08:16
08:20
08:24
08:28
08:32
08:36
08:40
08:44
08:48
08:52
08:56
09:00
09:04
Time (pDR)

pDR-1000
Tag Number: 02
Number of logged points: 59
Start time and date: 08:04:01 10-Jan
Elapsed time: 00:59:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.201 mg/m³
Time at maximum: 08:33:07 Jan 10
Max STEL Concentration: 0.051 mg/m³
Time at max STEL: 08:33:31 Jan 10
Overall Avg Conc: 0.047 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	08:05:01	0.032
2	10 Jan	08:06:01	0.034
3	10 Jan	08:07:01	0.036
4	10 Jan	08:08:01	0.047
5	10 Jan	08:09:01	0.041
6	10 Jan	08:10:01	0.043
7	10 Jan	08:11:01	0.049
8	10 Jan	08:12:01	0.046
9	10 Jan	08:13:01	0.044
10	10 Jan	08:14:01	0.048
11	10 Jan	08:15:01	0.047
12	10 Jan	08:16:01	0.045
13	10 Jan	08:17:01	0.048
14	10 Jan	08:18:01	0.050
15	10 Jan	08:19:01	0.049
16	10 Jan	08:20:01	0.046
17	10 Jan	08:21:01	0.047
18	10 Jan	08:22:01	0.051
19	10 Jan	08:23:01	0.052
20	10 Jan	08:24:01	0.047
21	10 Jan	08:25:01	0.049
22	10 Jan	08:26:01	0.046
23	10 Jan	08:27:01	0.048
24	10 Jan	08:28:01	0.048
25	10 Jan	08:29:01	0.048
26	10 Jan	08:30:01	0.049
27	10 Jan	08:31:01	0.049
28	10 Jan	08:32:01	0.058
29	10 Jan	08:33:01	0.062
30	10 Jan	08:34:01	0.062
31	10 Jan	08:35:01	0.050
32	10 Jan	08:36:01	0.049
33	10 Jan	08:37:01	0.048
34	10 Jan	08:38:01	0.047
35	10 Jan	08:39:01	0.047
36	10 Jan	08:40:01	0.046
37	10 Jan	08:41:01	0.045
38	10 Jan	08:42:01	0.046
39	10 Jan	08:43:01	0.047
40	10 Jan	08:44:01	0.048
41	10 Jan	08:45:01	0.049
42	10 Jan	08:46:01	0.046
43	10 Jan	08:47:01	0.050
44	10 Jan	08:48:01	0.048
45	10 Jan	08:49:01	0.048
46	10 Jan	08:50:01	0.046
47	10 Jan	08:51:01	0.049
48	10 Jan	08:52:01	0.048
49	10 Jan	08:53:01	0.046
50	10 Jan	08:54:01	0.045
51	10 Jan	08:55:01	0.049
52	10 Jan	08:56:01	0.048
53	10 Jan	08:57:01	0.052
54	10 Jan	08:58:01	0.046
55	10 Jan	08:59:01	0.046
56	10 Jan	09:00:01	0.047
57	10 Jan	09:01:01	0.046

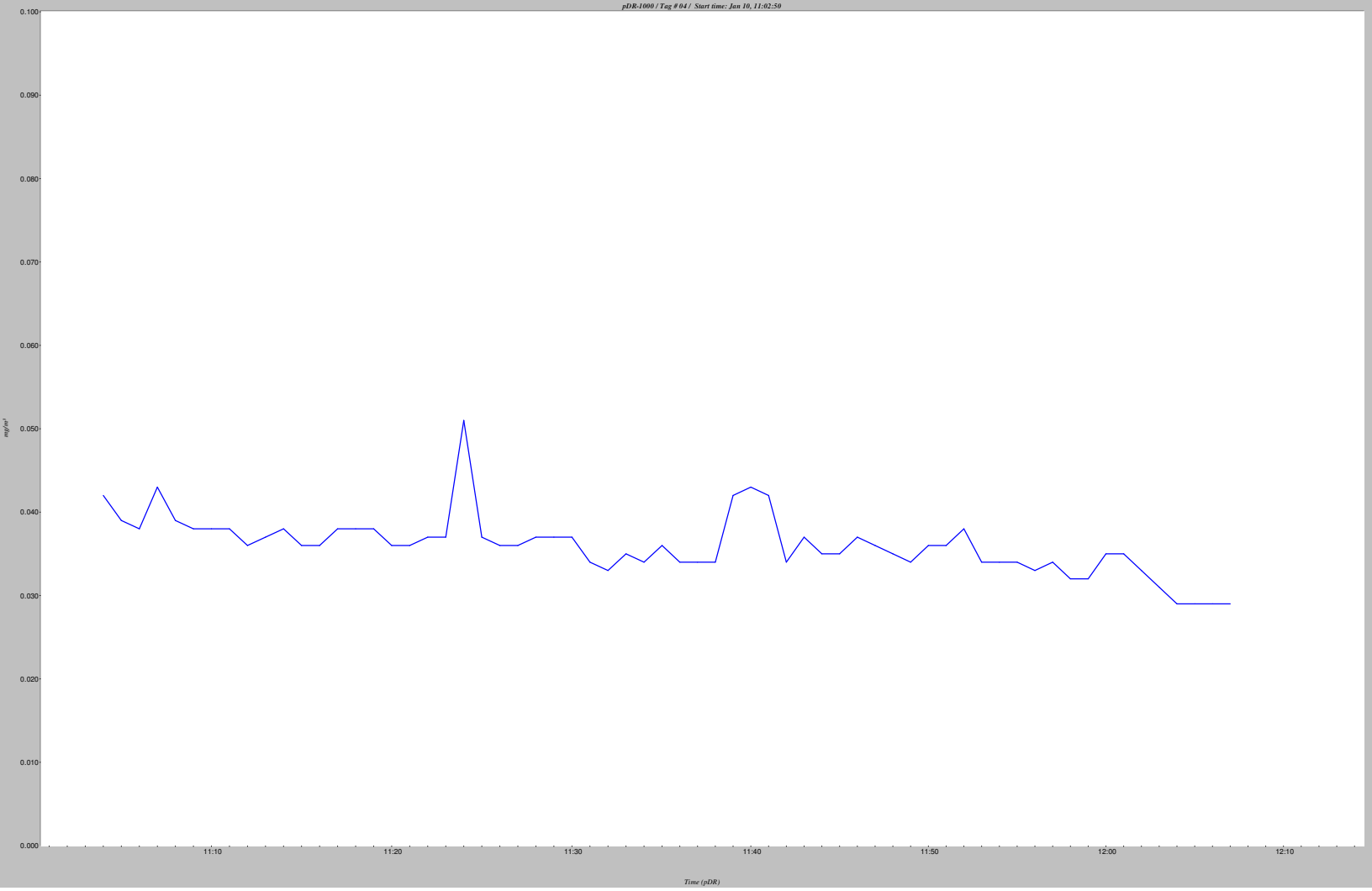
58, 10 Jan, 09:02:01, 0.045
59, 10 Jan, 09:03:01, 0.045


pDR-1000 / Tag # 03 / Start time: Jan 10, 09:05:12
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
Time (pDR)

pDR-1000
Tag Number: 03
Number of logged points: 116
Start time and date: 09:05:12 10-Jan
Elapsed time: 01:56:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.173 mg/m³
Time at maximum: 09:57:35 Jan 10
Max STEL Concentration: 0.045 mg/m³
Time at max STEL: 09:20:12 Jan 10
Overall Avg Conc: 0.043 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	09:06:12	0.049
2	10 Jan	09:07:12	0.048
3	10 Jan	09:08:12	0.052
4	10 Jan	09:09:12	0.049
5	10 Jan	09:10:12	0.045
6	10 Jan	09:11:12	0.046
7	10 Jan	09:12:12	0.050
8	10 Jan	09:13:12	0.043
9	10 Jan	09:14:12	0.044
10	10 Jan	09:15:12	0.043
11	10 Jan	09:16:12	0.043
12	10 Jan	09:17:12	0.041
13	10 Jan	09:18:12	0.040
14	10 Jan	09:19:12	0.041
15	10 Jan	09:20:12	0.042
16	10 Jan	09:21:12	0.048
17	10 Jan	09:22:12	0.042
18	10 Jan	09:23:12	0.054
19	10 Jan	09:24:12	0.045
20	10 Jan	09:25:12	0.045
21	10 Jan	09:26:12	0.044
22	10 Jan	09:27:12	0.043
23	10 Jan	09:28:12	0.040
24	10 Jan	09:29:12	0.042
25	10 Jan	09:30:12	0.040
26	10 Jan	09:31:12	0.041
27	10 Jan	09:32:12	0.041
28	10 Jan	09:33:12	0.043
29	10 Jan	09:34:12	0.042
30	10 Jan	09:35:12	0.043
31	10 Jan	09:36:12	0.045
32	10 Jan	09:37:12	0.045
33	10 Jan	09:38:12	0.045
34	10 Jan	09:39:12	0.044
35	10 Jan	09:40:12	0.040
36	10 Jan	09:41:12	0.040
37	10 Jan	09:42:12	0.041
38	10 Jan	09:43:12	0.046
39	10 Jan	09:44:12	0.041
40	10 Jan	09:45:12	0.043
41	10 Jan	09:46:12	0.040
42	10 Jan	09:47:12	0.037
43	10 Jan	09:48:12	0.037
44	10 Jan	09:49:12	0.038
45	10 Jan	09:50:12	0.039
46	10 Jan	09:51:12	0.038
47	10 Jan	09:52:12	0.039
48	10 Jan	09:53:12	0.040
49	10 Jan	09:54:12	0.038
50	10 Jan	09:55:12	0.052
51	10 Jan	09:56:12	0.054
52	10 Jan	09:57:12	0.042
53	10 Jan	09:58:12	0.064
54	10 Jan	09:59:12	0.041
55	10 Jan	10:00:12	0.044
56	10 Jan	10:01:12	0.043
57	10 Jan	10:02:12	0.041

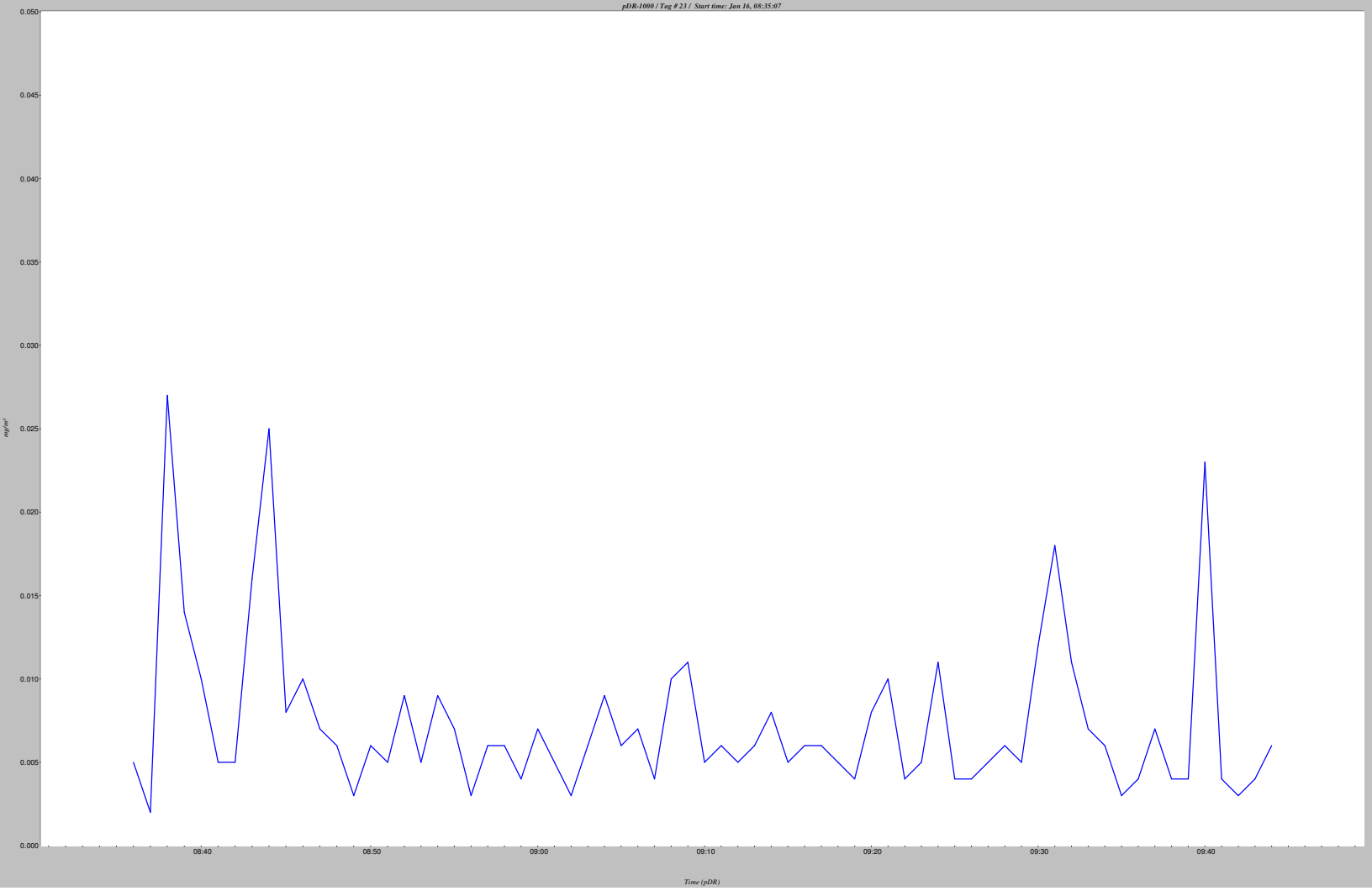
 58, 10 Jan, 10:03:12, 0.039
 59, 10 Jan, 10:04:12, 0.040
 60, 10 Jan, 10:05:12, 0.042
 61, 10 Jan, 10:06:12, 0.042
 62, 10 Jan, 10:07:12, 0.041
 63, 10 Jan, 10:08:12, 0.042
 64, 10 Jan, 10:09:12, 0.041
 65, 10 Jan, 10:10:12, 0.040
 66, 10 Jan, 10:11:12, 0.040
 67, 10 Jan, 10:12:12, 0.047
 68, 10 Jan, 10:13:12, 0.042
 69, 10 Jan, 10:14:12, 0.047
 70, 10 Jan, 10:15:12, 0.040
 71, 10 Jan, 10:16:12, 0.046
 72, 10 Jan, 10:17:12, 0.042
 73, 10 Jan, 10:18:12, 0.044
 74, 10 Jan, 10:19:12, 0.046
 75, 10 Jan, 10:20:12, 0.043
 76, 10 Jan, 10:21:12, 0.043
 77, 10 Jan, 10:22:12, 0.043
 78, 10 Jan, 10:23:12, 0.043
 79, 10 Jan, 10:24:12, 0.041
 80, 10 Jan, 10:25:12, 0.043
 81, 10 Jan, 10:26:12, 0.046
 82, 10 Jan, 10:27:12, 0.042
 83, 10 Jan, 10:28:12, 0.042
 84, 10 Jan, 10:29:12, 0.043
 85, 10 Jan, 10:30:12, 0.043
 86, 10 Jan, 10:31:12, 0.043
 87, 10 Jan, 10:32:12, 0.043
 88, 10 Jan, 10:33:12, 0.042
 89, 10 Jan, 10:34:12, 0.043
 90, 10 Jan, 10:35:12, 0.046
 91, 10 Jan, 10:36:12, 0.047
 92, 10 Jan, 10:37:12, 0.043
 93, 10 Jan, 10:38:12, 0.042
 94, 10 Jan, 10:39:12, 0.044
 95, 10 Jan, 10:40:12, 0.044
 96, 10 Jan, 10:41:12, 0.045
 97, 10 Jan, 10:42:12, 0.045
 98, 10 Jan, 10:43:12, 0.042
 99, 10 Jan, 10:44:12, 0.043
100, 10 Jan, 10:45:12, 0.044
101, 10 Jan, 10:46:12, 0.045
102, 10 Jan, 10:47:12, 0.044
103, 10 Jan, 10:48:12, 0.044
104, 10 Jan, 10:49:12, 0.042
105, 10 Jan, 10:50:12, 0.044
106, 10 Jan, 10:51:12, 0.041
107, 10 Jan, 10:52:12, 0.040
108, 10 Jan, 10:53:12, 0.041
109, 10 Jan, 10:54:12, 0.040
110, 10 Jan, 10:55:12, 0.040
111, 10 Jan, 10:56:12, 0.041
112, 10 Jan, 10:57:12, 0.039
113, 10 Jan, 10:58:12, 0.040
114, 10 Jan, 10:59:12, 0.042
115, 10 Jan, 11:00:12, 0.041
116, 10 Jan, 11:01:12, 0.040


pDR-1000 / Tag # 04 / Start time: Jan 10, 11:02:50
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
11:10
11:20
11:30
11:40
11:50
12:00
12:10
Time (pDR)

pDR-1000
Tag Number: 04
Number of logged points: 64
Start time and date: 11:02:50 10-Jan
Elapsed time: 01:04:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.111 mg/m³
Time at maximum: 11:02:51 Jan 10
Max STEL Concentration: 0.038 mg/m³
Time at max STEL: 11:17:50 Jan 10
Overall Avg Conc: 0.036 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	11:03:50	0.042
2	10 Jan	11:04:50	0.039
3	10 Jan	11:05:50	0.038
4	10 Jan	11:06:50	0.043
5	10 Jan	11:07:50	0.039
6	10 Jan	11:08:50	0.038
7	10 Jan	11:09:50	0.038
8	10 Jan	11:10:50	0.038
9	10 Jan	11:11:50	0.036
10	10 Jan	11:12:50	0.037
11	10 Jan	11:13:50	0.038
12	10 Jan	11:14:50	0.036
13	10 Jan	11:15:50	0.036
14	10 Jan	11:16:50	0.038
15	10 Jan	11:17:50	0.038
16	10 Jan	11:18:50	0.038
17	10 Jan	11:19:50	0.036
18	10 Jan	11:20:50	0.036
19	10 Jan	11:21:50	0.037
20	10 Jan	11:22:50	0.037
21	10 Jan	11:23:50	0.051
22	10 Jan	11:24:50	0.037
23	10 Jan	11:25:50	0.036
24	10 Jan	11:26:50	0.036
25	10 Jan	11:27:50	0.037
26	10 Jan	11:28:50	0.037
27	10 Jan	11:29:50	0.037
28	10 Jan	11:30:50	0.034
29	10 Jan	11:31:50	0.033
30	10 Jan	11:32:50	0.035
31	10 Jan	11:33:50	0.034
32	10 Jan	11:34:50	0.036
33	10 Jan	11:35:50	0.034
34	10 Jan	11:36:50	0.034
35	10 Jan	11:37:50	0.034
36	10 Jan	11:38:50	0.042
37	10 Jan	11:39:50	0.043
38	10 Jan	11:40:50	0.042
39	10 Jan	11:41:50	0.034
40	10 Jan	11:42:50	0.037
41	10 Jan	11:43:50	0.035
42	10 Jan	11:44:50	0.035
43	10 Jan	11:45:50	0.037
44	10 Jan	11:46:50	0.036
45	10 Jan	11:47:50	0.035
46	10 Jan	11:48:50	0.034
47	10 Jan	11:49:50	0.036
48	10 Jan	11:50:50	0.036
49	10 Jan	11:51:50	0.038
50	10 Jan	11:52:50	0.034
51	10 Jan	11:53:50	0.034
52	10 Jan	11:54:50	0.034
53	10 Jan	11:55:50	0.033
54	10 Jan	11:56:50	0.034
55	10 Jan	11:57:50	0.032
56	10 Jan	11:58:50	0.032
57	10 Jan	11:59:50	0.035

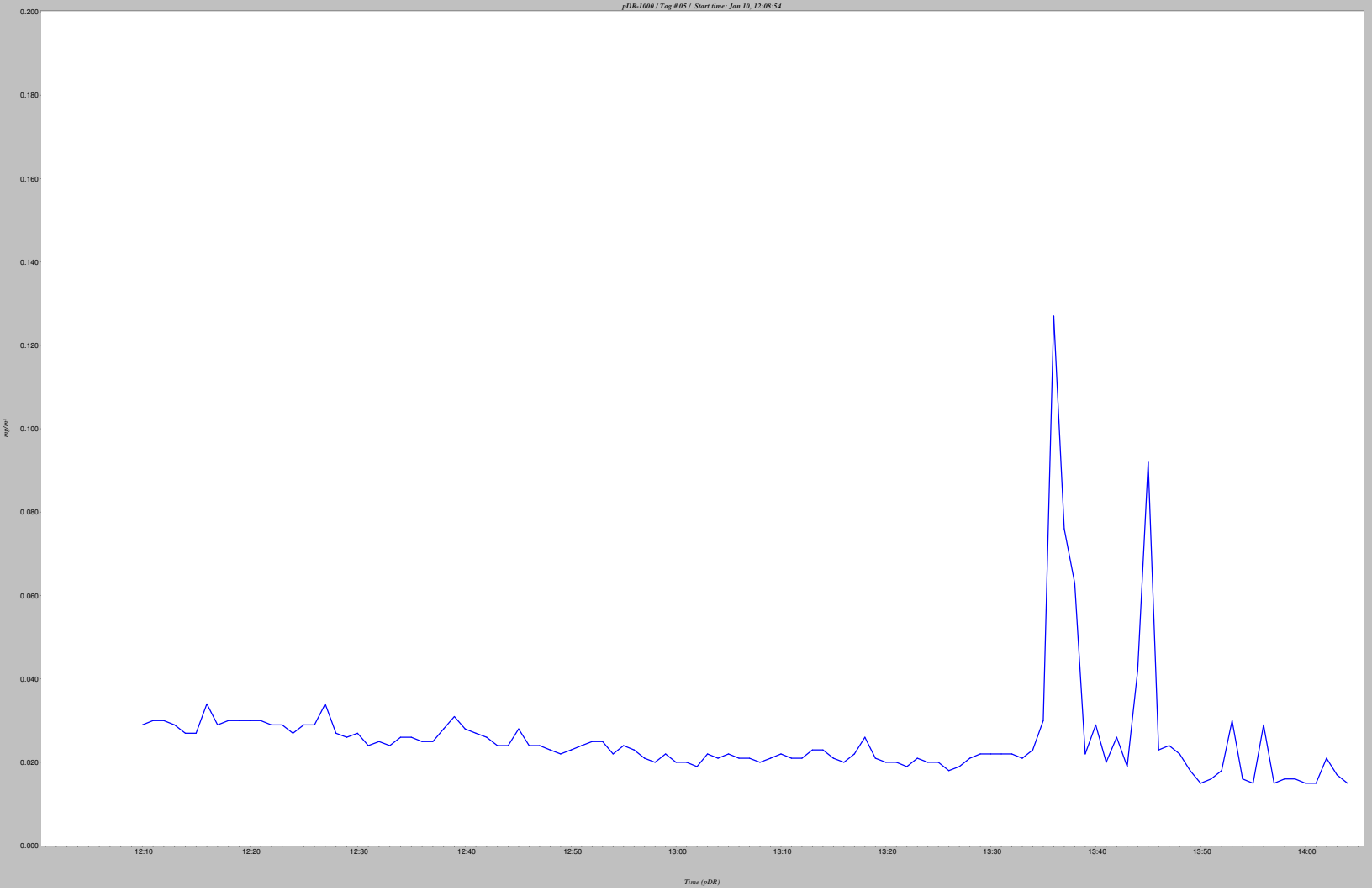
58, 10 Jan, 12:00:50, 0.035
59, 10 Jan, 12:01:50, 0.033
60, 10 Jan, 12:02:50, 0.031
61, 10 Jan, 12:03:50, 0.029
62, 10 Jan, 12:04:50, 0.029
63, 10 Jan, 12:05:50, 0.029
64, 10 Jan, 12:06:50, 0.029


pDR-1000 / Tag # 23 / Start time: Jan 16, 08:35:07
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
08:40
08:50
09:00
09:10
09:20
09:30
09:40
Time (pDR)

pDR-1000
Tag Number: 23
Number of logged points: 69
Start time and date: 08:35:07 16-Jan
Elapsed time: 01:09:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.103 mg/m³
Time at maximum: 09:40:01 Jan 16
Max STEL Concentration: 0.010 mg/m³
Time at max STEL: 08:49:37 Jan 16
Overall Avg Conc: 0.007 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	08:36:07	0.005
2	16 Jan	08:37:07	0.002
3	16 Jan	08:38:07	0.027
4	16 Jan	08:39:07	0.014
5	16 Jan	08:40:07	0.010
6	16 Jan	08:41:07	0.005
7	16 Jan	08:42:07	0.005
8	16 Jan	08:43:07	0.016
9	16 Jan	08:44:07	0.025
10	16 Jan	08:45:07	0.008
11	16 Jan	08:46:07	0.010
12	16 Jan	08:47:07	0.007
13	16 Jan	08:48:07	0.006
14	16 Jan	08:49:07	0.003
15	16 Jan	08:50:07	0.006
16	16 Jan	08:51:07	0.005
17	16 Jan	08:52:07	0.009
18	16 Jan	08:53:07	0.005
19	16 Jan	08:54:07	0.009
20	16 Jan	08:55:07	0.007
21	16 Jan	08:56:07	0.003
22	16 Jan	08:57:07	0.006
23	16 Jan	08:58:07	0.006
24	16 Jan	08:59:07	0.004
25	16 Jan	09:00:07	0.007
26	16 Jan	09:01:07	0.005
27	16 Jan	09:02:07	0.003
28	16 Jan	09:03:07	0.006
29	16 Jan	09:04:07	0.009
30	16 Jan	09:05:07	0.006
31	16 Jan	09:06:07	0.007
32	16 Jan	09:07:07	0.004
33	16 Jan	09:08:07	0.010
34	16 Jan	09:09:07	0.011
35	16 Jan	09:10:07	0.005
36	16 Jan	09:11:07	0.006
37	16 Jan	09:12:07	0.005
38	16 Jan	09:13:07	0.006
39	16 Jan	09:14:07	0.008
40	16 Jan	09:15:07	0.005
41	16 Jan	09:16:07	0.006
42	16 Jan	09:17:07	0.006
43	16 Jan	09:18:07	0.005
44	16 Jan	09:19:07	0.004
45	16 Jan	09:20:07	0.008
46	16 Jan	09:21:07	0.010
47	16 Jan	09:22:07	0.004
48	16 Jan	09:23:07	0.005
49	16 Jan	09:24:07	0.011
50	16 Jan	09:25:07	0.004
51	16 Jan	09:26:07	0.004
52	16 Jan	09:27:07	0.005
53	16 Jan	09:28:07	0.006
54	16 Jan	09:29:07	0.005
55	16 Jan	09:30:07	0.012
56	16 Jan	09:31:07	0.018
57	16 Jan	09:32:07	0.011

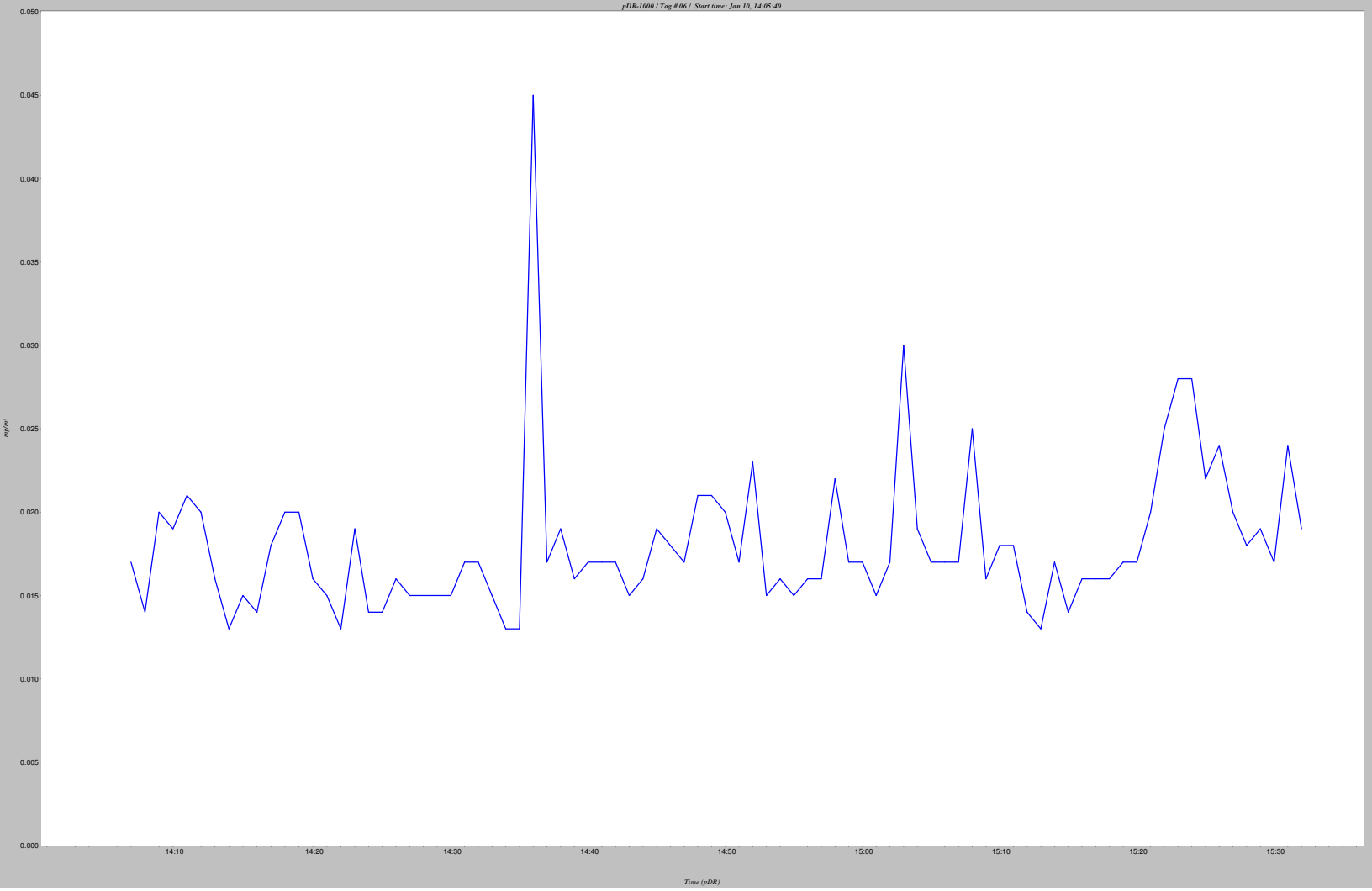
58, 16 Jan, 09:33:07, 0.007
59, 16 Jan, 09:34:07, 0.006
60, 16 Jan, 09:35:07, 0.003
61, 16 Jan, 09:36:07, 0.004
62, 16 Jan, 09:37:07, 0.007
63, 16 Jan, 09:38:07, 0.004
64, 16 Jan, 09:39:07, 0.004
65, 16 Jan, 09:40:07, 0.023
66, 16 Jan, 09:41:07, 0.004
67, 16 Jan, 09:42:07, 0.003
68, 16 Jan, 09:43:07, 0.004
69, 16 Jan, 09:44:07, 0.006


pDR-1000 / Tag # 05 / Start time: Jan 10, 12:08:54
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
13:30
13:40
13:50
14:00
Time (pDR)

pDR-1000
Tag Number: 05
Number of logged points: 115
Start time and date: 12:08:54 10-Jan
Elapsed time: 01:55:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.352 mg/m³
Time at maximum: 13:44:24 Jan 10
Max STEL Concentration: 0.043 mg/m³
Time at max STEL: 13:46:55 Jan 10
Overall Avg Conc: 0.026 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	12:09:54	0.029
2	10 Jan	12:10:54	0.030
3	10 Jan	12:11:54	0.030
4	10 Jan	12:12:54	0.029
5	10 Jan	12:13:54	0.027
6	10 Jan	12:14:54	0.027
7	10 Jan	12:15:54	0.034
8	10 Jan	12:16:54	0.029
9	10 Jan	12:17:54	0.030
10	10 Jan	12:18:54	0.030
11	10 Jan	12:19:54	0.030
12	10 Jan	12:20:54	0.030
13	10 Jan	12:21:54	0.029
14	10 Jan	12:22:54	0.029
15	10 Jan	12:23:54	0.027
16	10 Jan	12:24:54	0.029
17	10 Jan	12:25:54	0.029
18	10 Jan	12:26:54	0.034
19	10 Jan	12:27:54	0.027
20	10 Jan	12:28:54	0.026
21	10 Jan	12:29:54	0.027
22	10 Jan	12:30:54	0.024
23	10 Jan	12:31:54	0.025
24	10 Jan	12:32:54	0.024
25	10 Jan	12:33:54	0.026
26	10 Jan	12:34:54	0.026
27	10 Jan	12:35:54	0.025
28	10 Jan	12:36:54	0.025
29	10 Jan	12:37:54	0.028
30	10 Jan	12:38:54	0.031
31	10 Jan	12:39:54	0.028
32	10 Jan	12:40:54	0.027
33	10 Jan	12:41:54	0.026
34	10 Jan	12:42:54	0.024
35	10 Jan	12:43:54	0.024
36	10 Jan	12:44:54	0.028
37	10 Jan	12:45:54	0.024
38	10 Jan	12:46:54	0.024
39	10 Jan	12:47:54	0.023
40	10 Jan	12:48:54	0.022
41	10 Jan	12:49:54	0.023
42	10 Jan	12:50:54	0.024
43	10 Jan	12:51:54	0.025
44	10 Jan	12:52:54	0.025
45	10 Jan	12:53:54	0.022
46	10 Jan	12:54:54	0.024
47	10 Jan	12:55:54	0.023
48	10 Jan	12:56:54	0.021
49	10 Jan	12:57:54	0.020
50	10 Jan	12:58:54	0.022
51	10 Jan	12:59:54	0.020
52	10 Jan	13:00:54	0.020
53	10 Jan	13:01:54	0.019
54	10 Jan	13:02:54	0.022
55	10 Jan	13:03:54	0.021
56	10 Jan	13:04:54	0.022
57	10 Jan	13:05:54	0.021

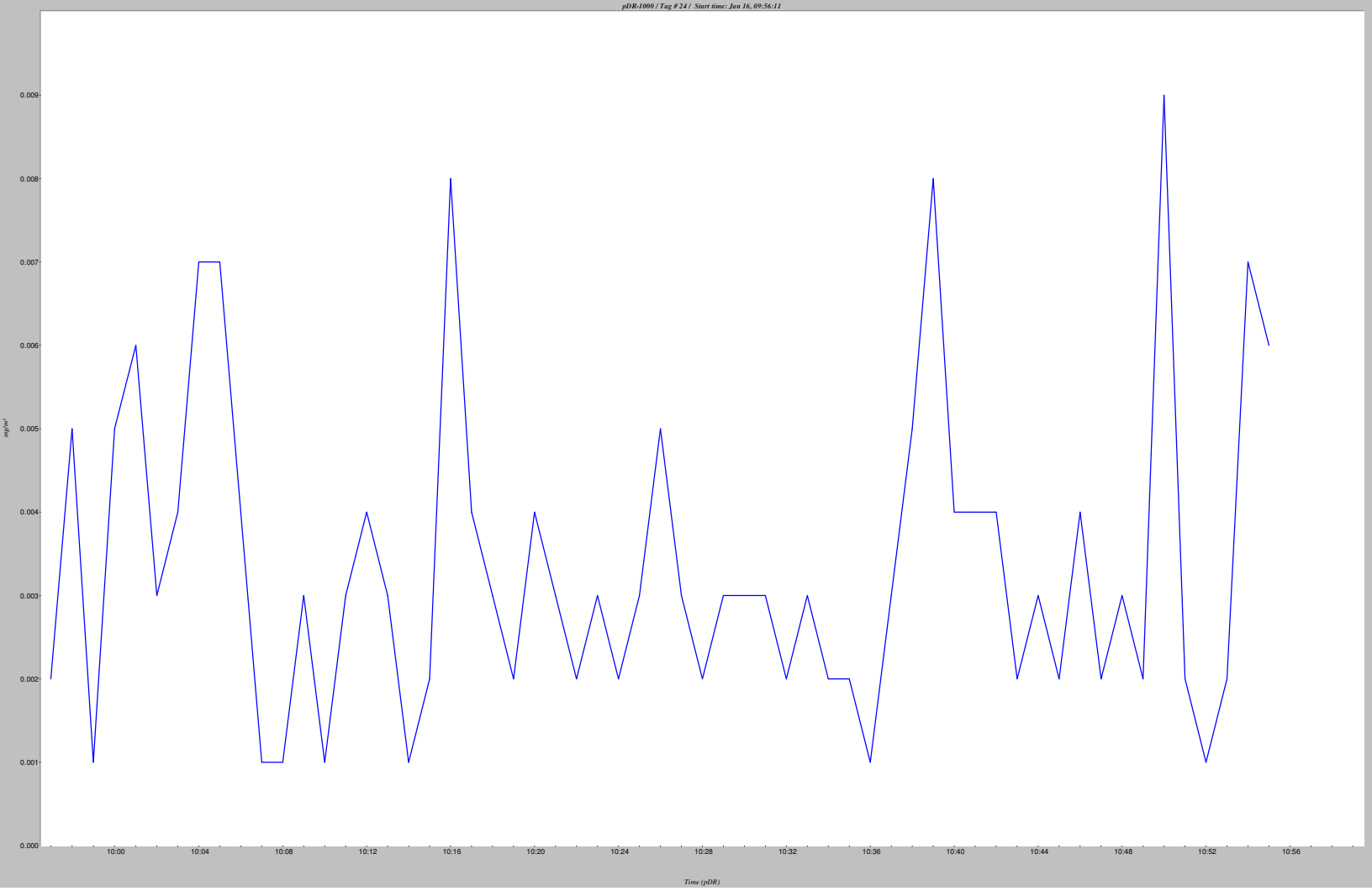
 58, 10 Jan, 13:06:54, 0.021
 59, 10 Jan, 13:07:54, 0.020
 60, 10 Jan, 13:08:54, 0.021
 61, 10 Jan, 13:09:54, 0.022
 62, 10 Jan, 13:10:54, 0.021
 63, 10 Jan, 13:11:54, 0.021
 64, 10 Jan, 13:12:54, 0.023
 65, 10 Jan, 13:13:54, 0.023
 66, 10 Jan, 13:14:54, 0.021
 67, 10 Jan, 13:15:54, 0.020
 68, 10 Jan, 13:16:54, 0.022
 69, 10 Jan, 13:17:54, 0.026
 70, 10 Jan, 13:18:54, 0.021
 71, 10 Jan, 13:19:54, 0.020
 72, 10 Jan, 13:20:54, 0.020
 73, 10 Jan, 13:21:54, 0.019
 74, 10 Jan, 13:22:54, 0.021
 75, 10 Jan, 13:23:54, 0.020
 76, 10 Jan, 13:24:54, 0.020
 77, 10 Jan, 13:25:54, 0.018
 78, 10 Jan, 13:26:54, 0.019
 79, 10 Jan, 13:27:54, 0.021
 80, 10 Jan, 13:28:54, 0.022
 81, 10 Jan, 13:29:54, 0.022
 82, 10 Jan, 13:30:54, 0.022
 83, 10 Jan, 13:31:54, 0.022
 84, 10 Jan, 13:32:54, 0.021
 85, 10 Jan, 13:33:54, 0.023
 86, 10 Jan, 13:34:54, 0.030
 87, 10 Jan, 13:35:54, 0.127
 88, 10 Jan, 13:36:54, 0.076
 89, 10 Jan, 13:37:54, 0.063
 90, 10 Jan, 13:38:54, 0.022
 91, 10 Jan, 13:39:54, 0.029
 92, 10 Jan, 13:40:54, 0.020
 93, 10 Jan, 13:41:54, 0.026
 94, 10 Jan, 13:42:54, 0.019
 95, 10 Jan, 13:43:54, 0.042
 96, 10 Jan, 13:44:54, 0.092
 97, 10 Jan, 13:45:54, 0.023
 98, 10 Jan, 13:46:54, 0.024
 99, 10 Jan, 13:47:54, 0.022
100, 10 Jan, 13:48:54, 0.018
101, 10 Jan, 13:49:54, 0.015
102, 10 Jan, 13:50:54, 0.016
103, 10 Jan, 13:51:54, 0.018
104, 10 Jan, 13:52:54, 0.030
105, 10 Jan, 13:53:54, 0.016
106, 10 Jan, 13:54:54, 0.015
107, 10 Jan, 13:55:54, 0.029
108, 10 Jan, 13:56:54, 0.015
109, 10 Jan, 13:57:54, 0.016
110, 10 Jan, 13:58:54, 0.016
111, 10 Jan, 13:59:54, 0.015
112, 10 Jan, 14:00:54, 0.015
113, 10 Jan, 14:01:54, 0.021
114, 10 Jan, 14:02:54, 0.017
115, 10 Jan, 14:03:54, 0.015


pDR-1000 / Tag # 06 / Start time: Jan 10, 14:05:40
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
Time (pDR)

pDR-1000
Tag Number: 06
Number of logged points: 86
Start time and date: 14:05:40 10-Jan
Elapsed time: 01:26:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.101 mg/m³
Time at maximum: 14:34:55 Jan 10
Max STEL Concentration: 0.021 mg/m³
Time at max STEL: 15:30:10 Jan 10
Overall Avg Conc: 0.018 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	10 Jan	14:06:40	0.017
2	10 Jan	14:07:40	0.014
3	10 Jan	14:08:40	0.020
4	10 Jan	14:09:40	0.019
5	10 Jan	14:10:40	0.021
6	10 Jan	14:11:40	0.020
7	10 Jan	14:12:40	0.016
8	10 Jan	14:13:40	0.013
9	10 Jan	14:14:40	0.015
10	10 Jan	14:15:40	0.014
11	10 Jan	14:16:40	0.018
12	10 Jan	14:17:40	0.020
13	10 Jan	14:18:40	0.020
14	10 Jan	14:19:40	0.016
15	10 Jan	14:20:40	0.015
16	10 Jan	14:21:40	0.013
17	10 Jan	14:22:40	0.019
18	10 Jan	14:23:40	0.014
19	10 Jan	14:24:40	0.014
20	10 Jan	14:25:40	0.016
21	10 Jan	14:26:40	0.015
22	10 Jan	14:27:40	0.015
23	10 Jan	14:28:40	0.015
24	10 Jan	14:29:40	0.015
25	10 Jan	14:30:40	0.017
26	10 Jan	14:31:40	0.017
27	10 Jan	14:32:40	0.015
28	10 Jan	14:33:40	0.013
29	10 Jan	14:34:40	0.013
30	10 Jan	14:35:40	0.045
31	10 Jan	14:36:40	0.017
32	10 Jan	14:37:40	0.019
33	10 Jan	14:38:40	0.016
34	10 Jan	14:39:40	0.017
35	10 Jan	14:40:40	0.017
36	10 Jan	14:41:40	0.017
37	10 Jan	14:42:40	0.015
38	10 Jan	14:43:40	0.016
39	10 Jan	14:44:40	0.019
40	10 Jan	14:45:40	0.018
41	10 Jan	14:46:40	0.017
42	10 Jan	14:47:40	0.021
43	10 Jan	14:48:40	0.021
44	10 Jan	14:49:40	0.020
45	10 Jan	14:50:40	0.017
46	10 Jan	14:51:40	0.023
47	10 Jan	14:52:40	0.015
48	10 Jan	14:53:40	0.016
49	10 Jan	14:54:40	0.015
50	10 Jan	14:55:40	0.016
51	10 Jan	14:56:40	0.016
52	10 Jan	14:57:40	0.022
53	10 Jan	14:58:40	0.017
54	10 Jan	14:59:40	0.017
55	10 Jan	15:00:40	0.015
56	10 Jan	15:01:40	0.017
57	10 Jan	15:02:40	0.030

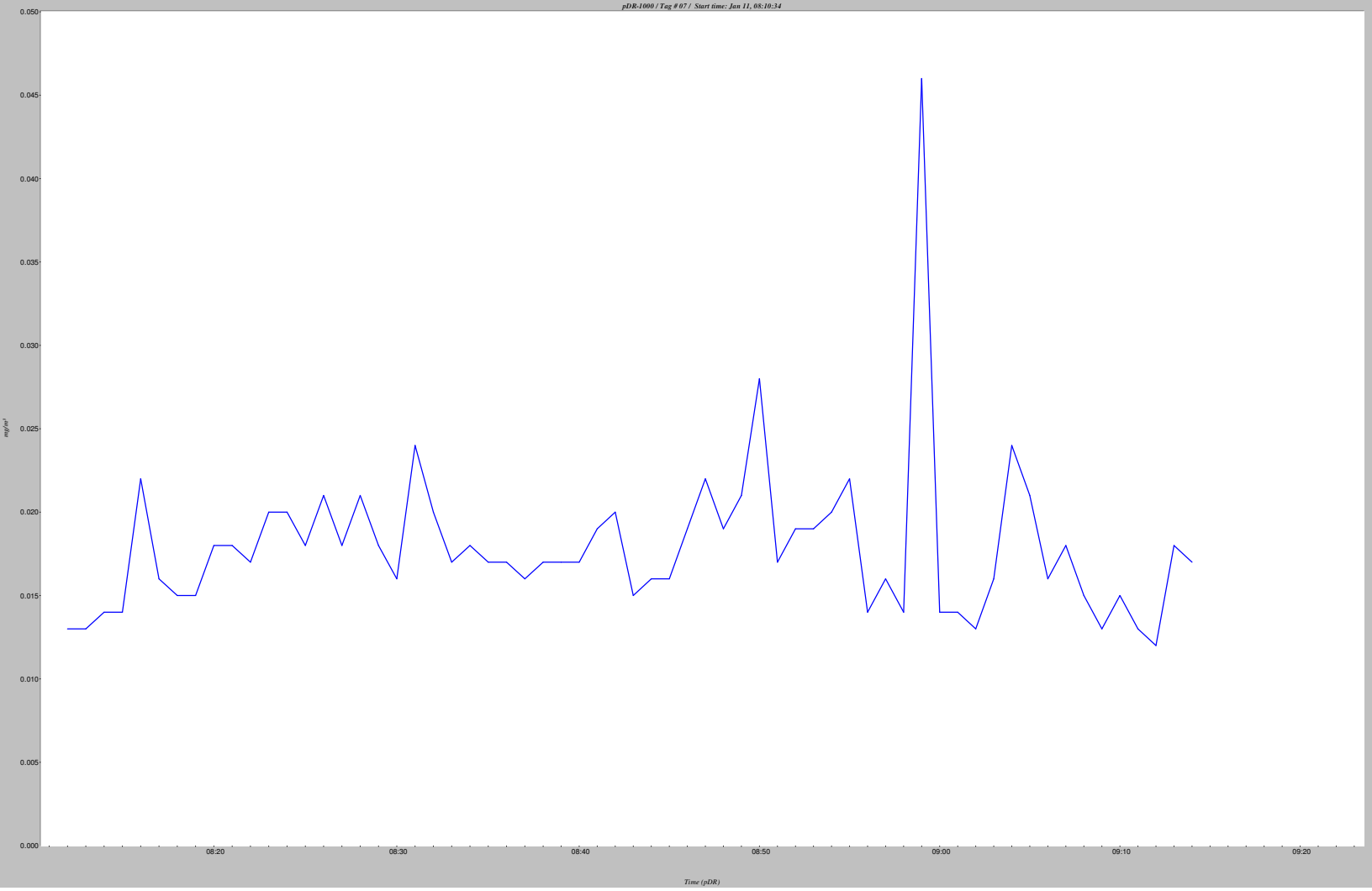
58, 10 Jan, 15:03:40, 0.019
59, 10 Jan, 15:04:40, 0.017
60, 10 Jan, 15:05:40, 0.017
61, 10 Jan, 15:06:40, 0.017
62, 10 Jan, 15:07:40, 0.025
63, 10 Jan, 15:08:40, 0.016
64, 10 Jan, 15:09:40, 0.018
65, 10 Jan, 15:10:40, 0.018
66, 10 Jan, 15:11:40, 0.014
67, 10 Jan, 15:12:40, 0.013
68, 10 Jan, 15:13:40, 0.017
69, 10 Jan, 15:14:40, 0.014
70, 10 Jan, 15:15:40, 0.016
71, 10 Jan, 15:16:40, 0.016
72, 10 Jan, 15:17:40, 0.016
73, 10 Jan, 15:18:40, 0.017
74, 10 Jan, 15:19:40, 0.017
75, 10 Jan, 15:20:40, 0.020
76, 10 Jan, 15:21:40, 0.025
77, 10 Jan, 15:22:40, 0.028
78, 10 Jan, 15:23:40, 0.028
79, 10 Jan, 15:24:40, 0.022
80, 10 Jan, 15:25:40, 0.024
81, 10 Jan, 15:26:40, 0.020
82, 10 Jan, 15:27:40, 0.018
83, 10 Jan, 15:28:40, 0.019
84, 10 Jan, 15:29:40, 0.017
85, 10 Jan, 15:30:40, 0.024
86, 10 Jan, 15:31:40, 0.019


pDR-1000 / Tag # 24 / Start time: Jan 16, 09:56:11
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
mg/m³
10:00
10:04
10:08
10:12
10:16
10:20
10:24
10:28
10:32
10:36
10:40
10:44
10:48
10:52
10:56
Time (pDR)

pDR-1000
Tag Number: 24
Number of logged points: 59
Start time and date: 09:56:11 16-Jan
Elapsed time: 00:59:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.042 mg/m³
Time at maximum: 10:50:05 Jan 16
Max STEL Concentration: 0.004 mg/m³
Time at max STEL: 10:50:11 Jan 16
Overall Avg Conc: 0.003 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	09:57:11	0.002
2	16 Jan	09:58:11	0.005
3	16 Jan	09:59:11	0.001
4	16 Jan	10:00:11	0.005
5	16 Jan	10:01:11	0.006
6	16 Jan	10:02:11	0.003
7	16 Jan	10:03:11	0.004
8	16 Jan	10:04:11	0.007
9	16 Jan	10:05:11	0.007
10	16 Jan	10:06:11	0.004
11	16 Jan	10:07:11	0.001
12	16 Jan	10:08:11	0.001
13	16 Jan	10:09:11	0.003
14	16 Jan	10:10:11	0.001
15	16 Jan	10:11:11	0.003
16	16 Jan	10:12:11	0.004
17	16 Jan	10:13:11	0.003
18	16 Jan	10:14:11	0.001
19	16 Jan	10:15:11	0.002
20	16 Jan	10:16:11	0.008
21	16 Jan	10:17:11	0.004
22	16 Jan	10:18:11	0.003
23	16 Jan	10:19:11	0.002
24	16 Jan	10:20:11	0.004
25	16 Jan	10:21:11	0.003
26	16 Jan	10:22:11	0.002
27	16 Jan	10:23:11	0.003
28	16 Jan	10:24:11	0.002
29	16 Jan	10:25:11	0.003
30	16 Jan	10:26:11	0.005
31	16 Jan	10:27:11	0.003
32	16 Jan	10:28:11	0.002
33	16 Jan	10:29:11	0.003
34	16 Jan	10:30:11	0.003
35	16 Jan	10:31:11	0.003
36	16 Jan	10:32:11	0.002
37	16 Jan	10:33:11	0.003
38	16 Jan	10:34:11	0.002
39	16 Jan	10:35:11	0.002
40	16 Jan	10:36:11	0.001
41	16 Jan	10:37:11	0.003
42	16 Jan	10:38:11	0.005
43	16 Jan	10:39:11	0.008
44	16 Jan	10:40:11	0.004
45	16 Jan	10:41:11	0.004
46	16 Jan	10:42:11	0.004
47	16 Jan	10:43:11	0.002
48	16 Jan	10:44:11	0.003
49	16 Jan	10:45:11	0.002
50	16 Jan	10:46:11	0.004
51	16 Jan	10:47:11	0.002
52	16 Jan	10:48:11	0.003
53	16 Jan	10:49:11	0.002
54	16 Jan	10:50:11	0.009
55	16 Jan	10:51:11	0.002
56	16 Jan	10:52:11	0.001
57	16 Jan	10:53:11	0.002

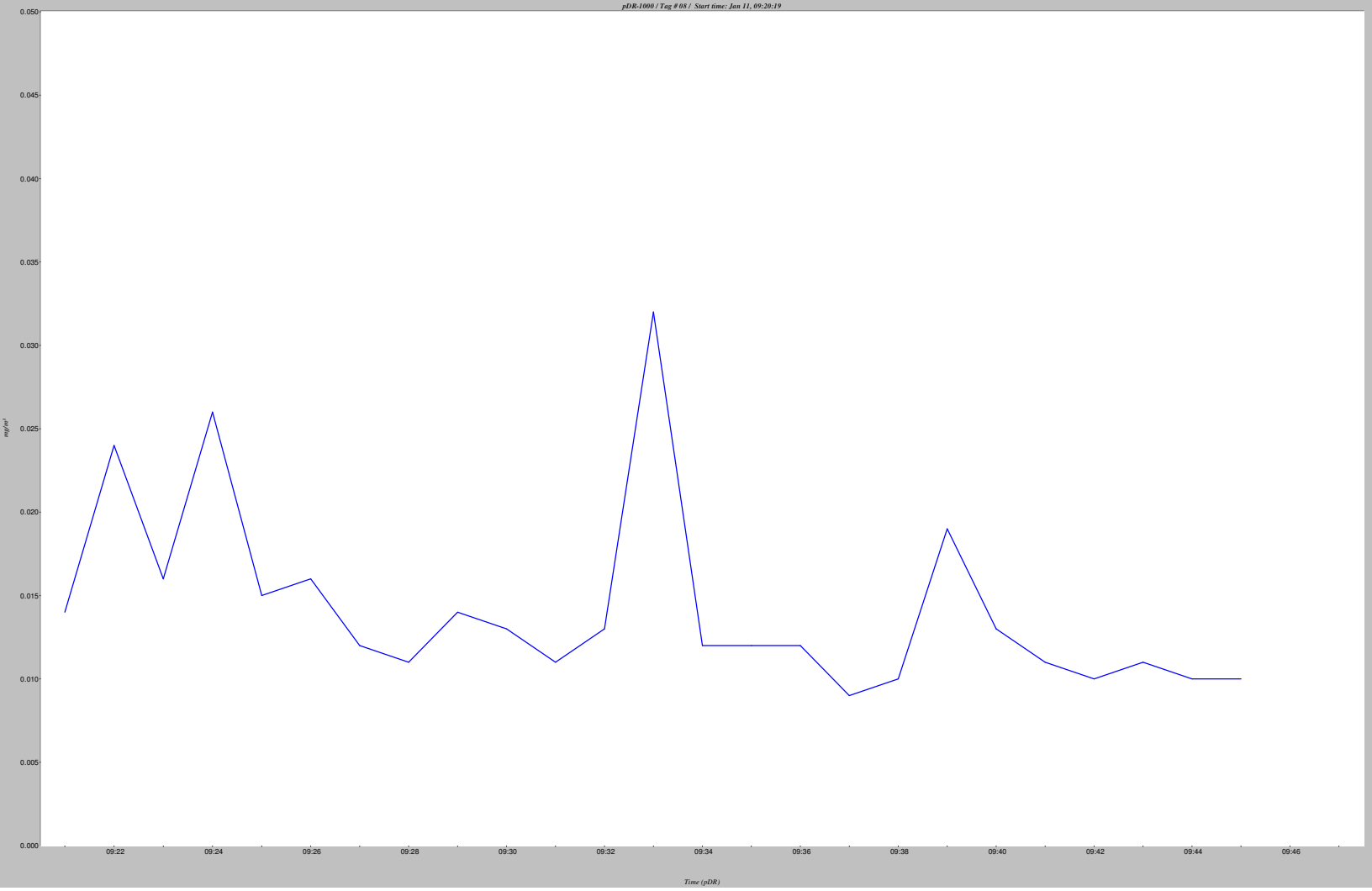
58, 16 Jan, 10:54:11, 0.007
59, 16 Jan, 10:55:11, 0.006


pDR-1000 / Tag # 07 / Start time: Jan 11, 08:10:34
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
08:20
08:30
08:40
08:50
09:00
09:10
09:20
Time (pDR)

pDR-1000
Tag Number: 07
Number of logged points: 63
Start time and date: 08:10:34 11-Jan
Elapsed time: 01:03:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.211 mg/m³
Time at maximum: 08:58:35 Jan 11
Max STEL Concentration: 0.021 mg/m³
Time at max STEL: 08:58:34 Jan 11
Overall Avg Conc: 0.018 mg/m³
Logged Data:

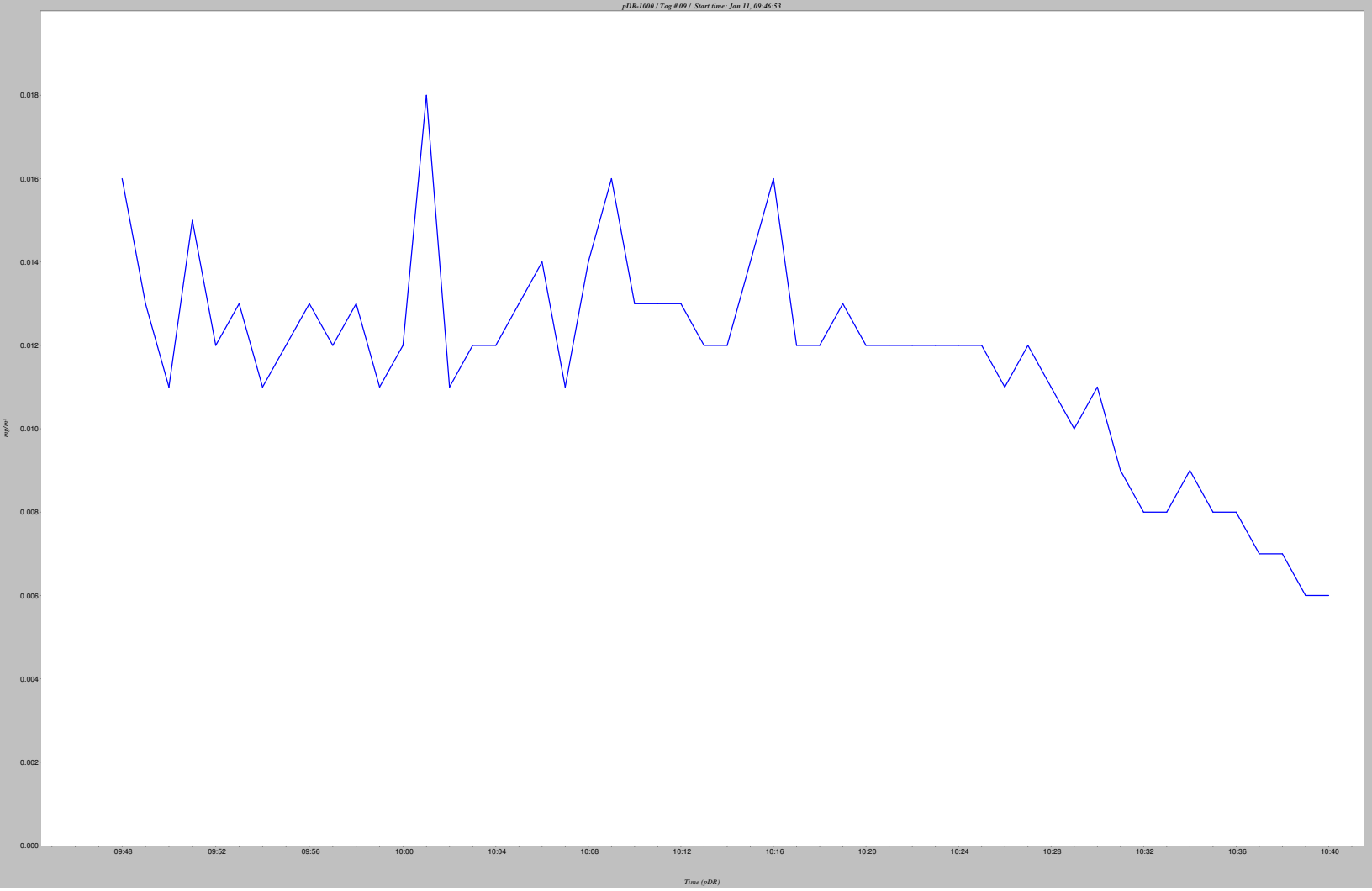
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	08:11:34	0.013
2	11 Jan	08:12:34	0.013
3	11 Jan	08:13:34	0.014
4	11 Jan	08:14:34	0.014
5	11 Jan	08:15:34	0.022
6	11 Jan	08:16:34	0.016
7	11 Jan	08:17:34	0.015
8	11 Jan	08:18:34	0.015
9	11 Jan	08:19:34	0.018
10	11 Jan	08:20:34	0.018
11	11 Jan	08:21:34	0.017
12	11 Jan	08:22:34	0.020
13	11 Jan	08:23:34	0.020
14	11 Jan	08:24:34	0.018
15	11 Jan	08:25:34	0.021
16	11 Jan	08:26:34	0.018
17	11 Jan	08:27:34	0.021
18	11 Jan	08:28:34	0.018
19	11 Jan	08:29:34	0.016
20	11 Jan	08:30:34	0.024
21	11 Jan	08:31:34	0.020
22	11 Jan	08:32:34	0.017
23	11 Jan	08:33:34	0.018
24	11 Jan	08:34:34	0.017
25	11 Jan	08:35:34	0.017
26	11 Jan	08:36:34	0.016
27	11 Jan	08:37:34	0.017
28	11 Jan	08:38:34	0.017
29	11 Jan	08:39:34	0.017
30	11 Jan	08:40:34	0.019
31	11 Jan	08:41:34	0.020
32	11 Jan	08:42:34	0.015
33	11 Jan	08:43:34	0.016
34	11 Jan	08:44:34	0.016
35	11 Jan	08:45:34	0.019
36	11 Jan	08:46:34	0.022
37	11 Jan	08:47:34	0.019
38	11 Jan	08:48:34	0.021
39	11 Jan	08:49:34	0.028
40	11 Jan	08:50:34	0.017
41	11 Jan	08:51:34	0.019
42	11 Jan	08:52:34	0.019
43	11 Jan	08:53:34	0.020
44	11 Jan	08:54:34	0.022
45	11 Jan	08:55:34	0.014
46	11 Jan	08:56:34	0.016
47	11 Jan	08:57:34	0.014
48	11 Jan	08:58:34	0.046
49	11 Jan	08:59:34	0.014
50	11 Jan	09:00:34	0.014
51	11 Jan	09:01:34	0.013
52	11 Jan	09:02:34	0.016
53	11 Jan	09:03:34	0.024
54	11 Jan	09:04:34	0.021
55	11 Jan	09:05:34	0.016
56	11 Jan	09:06:34	0.018
57	11 Jan	09:07:34	0.015

58, 11 Jan, 09:08:34, 0.013
59, 11 Jan, 09:09:34, 0.015
60, 11 Jan, 09:10:34, 0.013
61, 11 Jan, 09:11:34, 0.012
62, 11 Jan, 09:12:34, 0.018
63, 11 Jan, 09:13:34, 0.017


pDR-1000 / Tag # 08 / Start time: Jan 11, 09:20:19
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
09:22
09:24
09:26
09:28
09:30
09:32
09:34
09:36
09:38
09:40
09:42
09:44
09:46
Time (pDR)

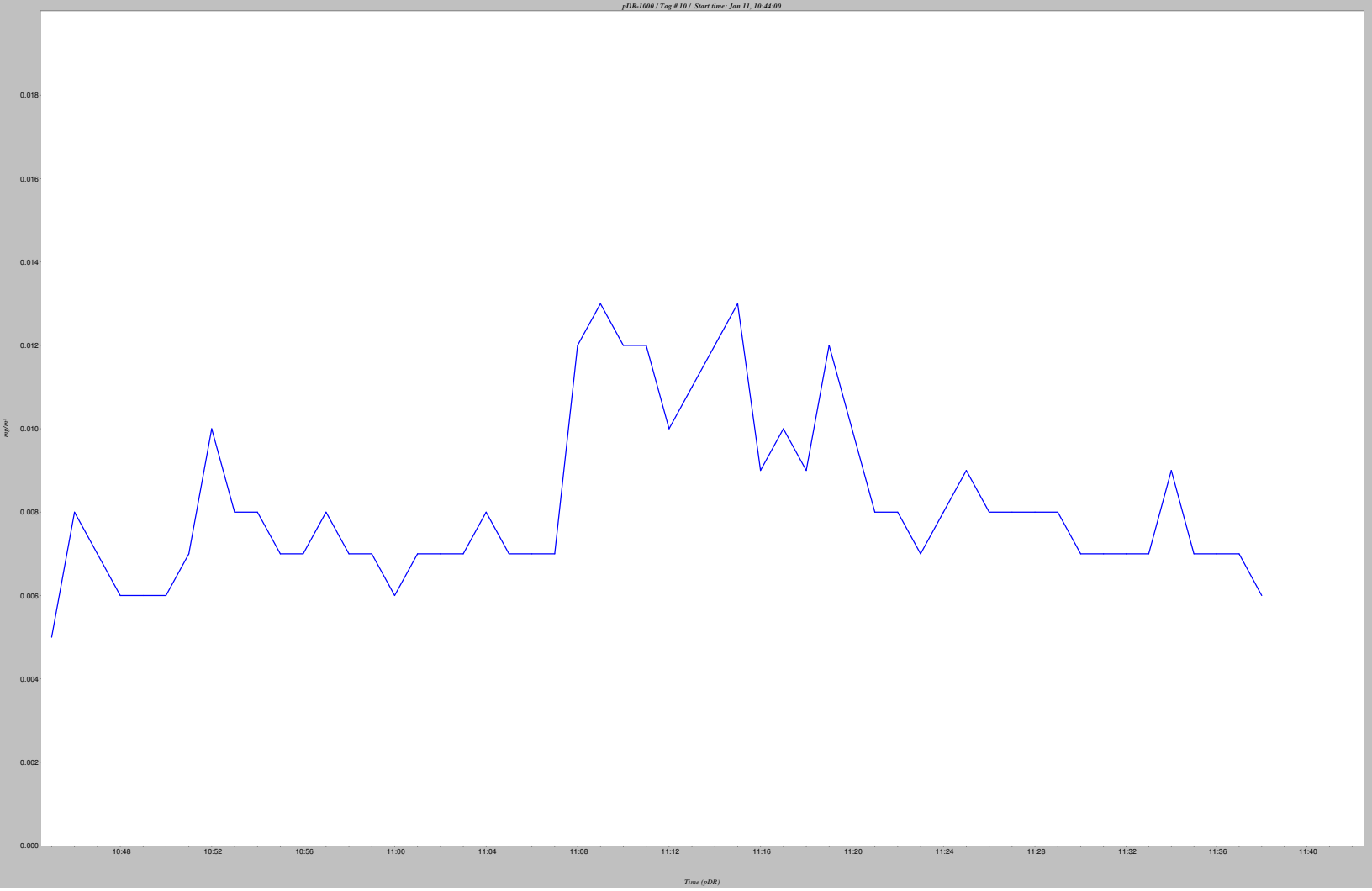
pDR-1000
Tag Number: 08
Number of logged points: 25
Start time and date: 09:20:19 11-Jan
Elapsed time: 00:25:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.074 mg/m³
Time at maximum: 09:23:32 Jan 11
Max STEL Concentration: 0.016 mg/m³
Time at max STEL: 09:34:49 Jan 11
Overall Avg Conc: 0.014 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	11 Jan	09:21:19	0.014
2	11 Jan	09:22:19	0.024
3	11 Jan	09:23:19	0.016
4	11 Jan	09:24:19	0.026
5	11 Jan	09:25:19	0.015
6	11 Jan	09:26:19	0.016
7	11 Jan	09:27:19	0.012
8	11 Jan	09:28:19	0.011
9	11 Jan	09:29:19	0.014
10	11 Jan	09:30:19	0.013
11	11 Jan	09:31:19	0.011
12	11 Jan	09:32:19	0.013
13	11 Jan	09:33:19	0.032
14	11 Jan	09:34:19	0.012
15	11 Jan	09:35:19	0.012
16	11 Jan	09:36:19	0.012
17	11 Jan	09:37:19	0.009
18	11 Jan	09:38:19	0.010
19	11 Jan	09:39:19	0.019
20	11 Jan	09:40:19	0.013
21	11 Jan	09:41:19	0.011
22	11 Jan	09:42:19	0.010
23	11 Jan	09:43:19	0.011
24	11 Jan	09:44:19	0.010
25	11 Jan	09:45:19	0.010


pDR-1000 / Tag # 09 / Start time: Jan 11, 09:46:53
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
09:48
09:52
09:56
10:00
10:04
10:08
10:12
10:16
10:20
10:24
10:28
10:32
10:36
10:40
Time (pDR)

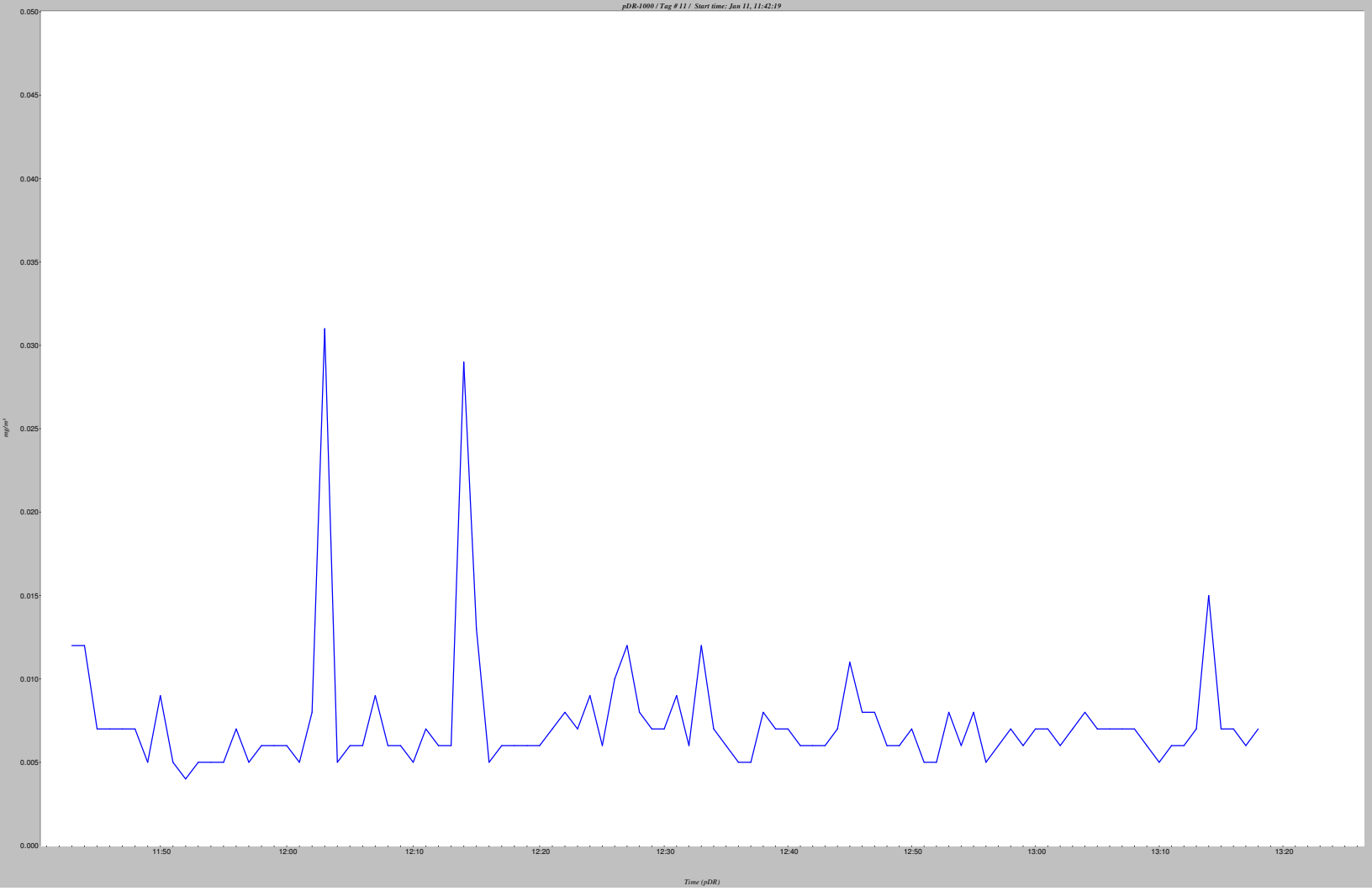
pDR-1000
Tag Number: 09
Number of logged points: 53
Start time and date: 09:46:53 11-Jan
Elapsed time: 00:53:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.041 mg/m³
Time at maximum: 10:15:45 Jan 11
Max STEL Concentration: 0.013 mg/m³
Time at max STEL: 10:01:54 Jan 11
Overall Avg Conc: 0.011 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	11 Jan	09:47:53	0.016
2	11 Jan	09:48:53	0.013
3	11 Jan	09:49:53	0.011
4	11 Jan	09:50:53	0.015
5	11 Jan	09:51:53	0.012
6	11 Jan	09:52:53	0.013
7	11 Jan	09:53:53	0.011
8	11 Jan	09:54:53	0.012
9	11 Jan	09:55:53	0.013
10	11 Jan	09:56:53	0.012
11	11 Jan	09:57:53	0.013
12	11 Jan	09:58:53	0.011
13	11 Jan	09:59:53	0.012
14	11 Jan	10:00:53	0.018
15	11 Jan	10:01:53	0.011
16	11 Jan	10:02:53	0.012
17	11 Jan	10:03:53	0.012
18	11 Jan	10:04:53	0.013
19	11 Jan	10:05:53	0.014
20	11 Jan	10:06:53	0.011
21	11 Jan	10:07:53	0.014
22	11 Jan	10:08:53	0.016
23	11 Jan	10:09:53	0.013
24	11 Jan	10:10:53	0.013
25	11 Jan	10:11:53	0.013
26	11 Jan	10:12:53	0.012
27	11 Jan	10:13:53	0.012
28	11 Jan	10:14:53	0.014
29	11 Jan	10:15:53	0.016
30	11 Jan	10:16:53	0.012
31	11 Jan	10:17:53	0.012
32	11 Jan	10:18:53	0.013
33	11 Jan	10:19:53	0.012
34	11 Jan	10:20:53	0.012
35	11 Jan	10:21:53	0.012
36	11 Jan	10:22:53	0.012
37	11 Jan	10:23:53	0.012
38	11 Jan	10:24:53	0.012
39	11 Jan	10:25:53	0.011
40	11 Jan	10:26:53	0.012
41	11 Jan	10:27:53	0.011
42	11 Jan	10:28:53	0.010
43	11 Jan	10:29:53	0.011
44	11 Jan	10:30:53	0.009
45	11 Jan	10:31:53	0.008
46	11 Jan	10:32:53	0.008
47	11 Jan	10:33:53	0.009
48	11 Jan	10:34:53	0.008
49	11 Jan	10:35:53	0.008
50	11 Jan	10:36:53	0.007
51	11 Jan	10:37:53	0.007
52	11 Jan	10:38:53	0.006
53	11 Jan	10:39:53	0.006


pDR-1000 / Tag # 10 / Start time: Jan 11, 10:44:00
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
10:48
10:52
10:56
11:00
11:04
11:08
11:12
11:16
11:20
11:24
11:28
11:32
11:36
11:40
Time (pDR)

pDR-1000
Tag Number: 10
Number of logged points: 54
Start time and date: 10:44:00 11-Jan
Elapsed time: 00:54:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.033 mg/m³
Time at maximum: 11:07:51 Jan 11
Max STEL Concentration: 0.011 mg/m³
Time at max STEL: 11:19:30 Jan 11
Overall Avg Conc: 0.008 mg/m³
Logged Data:

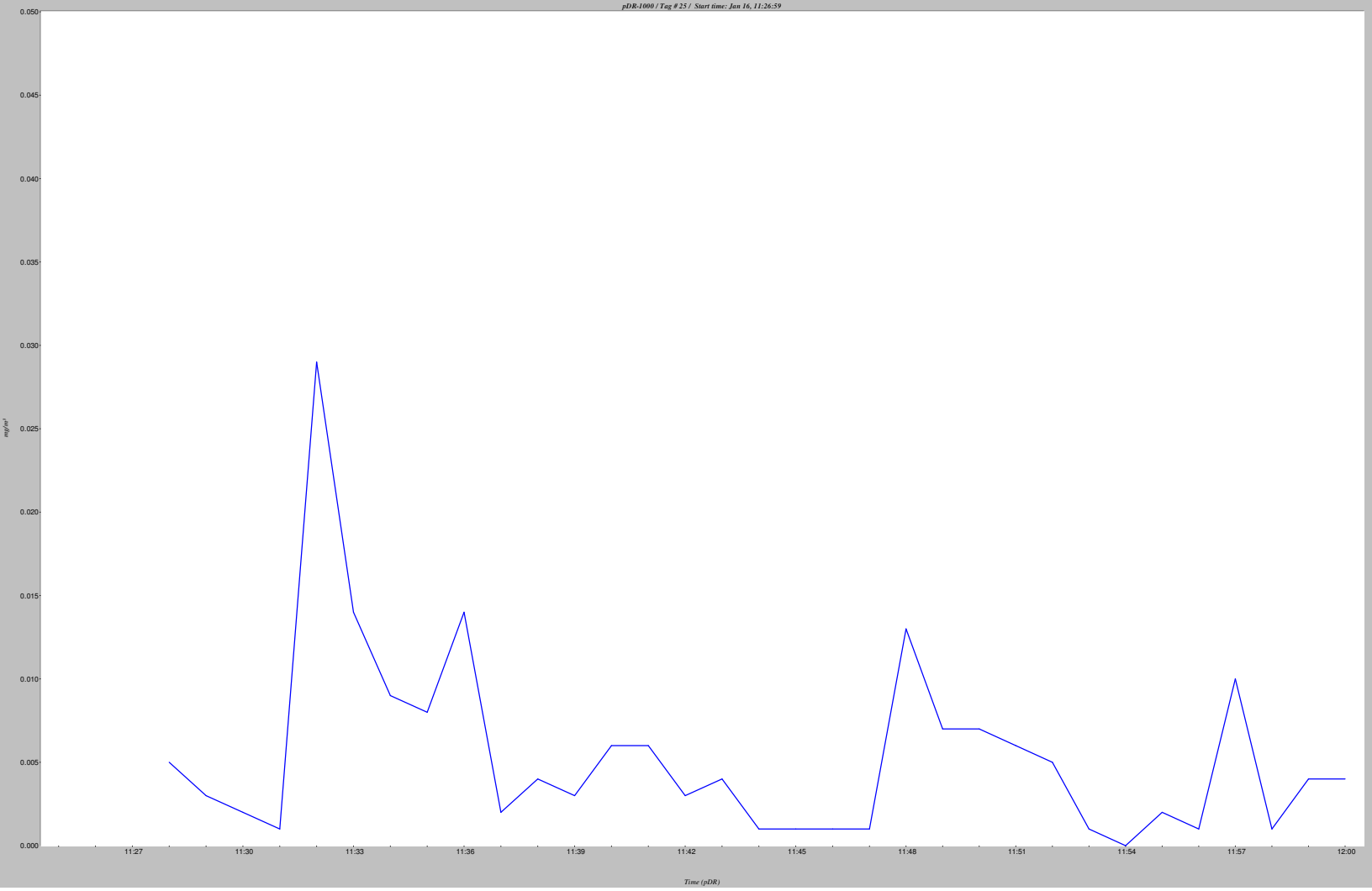
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	10:45:00	0.005
2	11 Jan	10:46:00	0.008
3	11 Jan	10:47:00	0.007
4	11 Jan	10:48:00	0.006
5	11 Jan	10:49:00	0.006
6	11 Jan	10:50:00	0.006
7	11 Jan	10:51:00	0.007
8	11 Jan	10:52:00	0.010
9	11 Jan	10:53:00	0.008
10	11 Jan	10:54:00	0.008
11	11 Jan	10:55:00	0.007
12	11 Jan	10:56:00	0.007
13	11 Jan	10:57:00	0.008
14	11 Jan	10:58:00	0.007
15	11 Jan	10:59:00	0.007
16	11 Jan	11:00:00	0.006
17	11 Jan	11:01:00	0.007
18	11 Jan	11:02:00	0.007
19	11 Jan	11:03:00	0.007
20	11 Jan	11:04:00	0.008
21	11 Jan	11:05:00	0.007
22	11 Jan	11:06:00	0.007
23	11 Jan	11:07:00	0.007
24	11 Jan	11:08:00	0.012
25	11 Jan	11:09:00	0.013
26	11 Jan	11:10:00	0.012
27	11 Jan	11:11:00	0.012
28	11 Jan	11:12:00	0.010
29	11 Jan	11:13:00	0.011
30	11 Jan	11:14:00	0.012
31	11 Jan	11:15:00	0.013
32	11 Jan	11:16:00	0.009
33	11 Jan	11:17:00	0.010
34	11 Jan	11:18:00	0.009
35	11 Jan	11:19:00	0.012
36	11 Jan	11:20:00	0.010
37	11 Jan	11:21:00	0.008
38	11 Jan	11:22:00	0.008
39	11 Jan	11:23:00	0.007
40	11 Jan	11:24:00	0.008
41	11 Jan	11:25:00	0.009
42	11 Jan	11:26:00	0.008
43	11 Jan	11:27:00	0.008
44	11 Jan	11:28:00	0.008
45	11 Jan	11:29:00	0.008
46	11 Jan	11:30:00	0.007
47	11 Jan	11:31:00	0.007
48	11 Jan	11:32:00	0.007
49	11 Jan	11:33:00	0.007
50	11 Jan	11:34:00	0.009
51	11 Jan	11:35:00	0.007
52	11 Jan	11:36:00	0.007
53	11 Jan	11:37:00	0.007
54	11 Jan	11:38:00	0.006


pDR-1000 / Tag # 11 / Start time: Jan 11, 11:42:19
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
11:50
12:00
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
Time (pDR)

pDR-1000
Tag Number: 11
Number of logged points: 96
Start time and date: 11:42:19 11-Jan
Elapsed time: 01:36:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.141 mg/m³
Time at maximum: 12:02:28 Jan 11
Max STEL Concentration: 0.010 mg/m³
Time at max STEL: 12:14:49 Jan 11
Overall Avg Conc: 0.007 mg/m³
Logged Data:

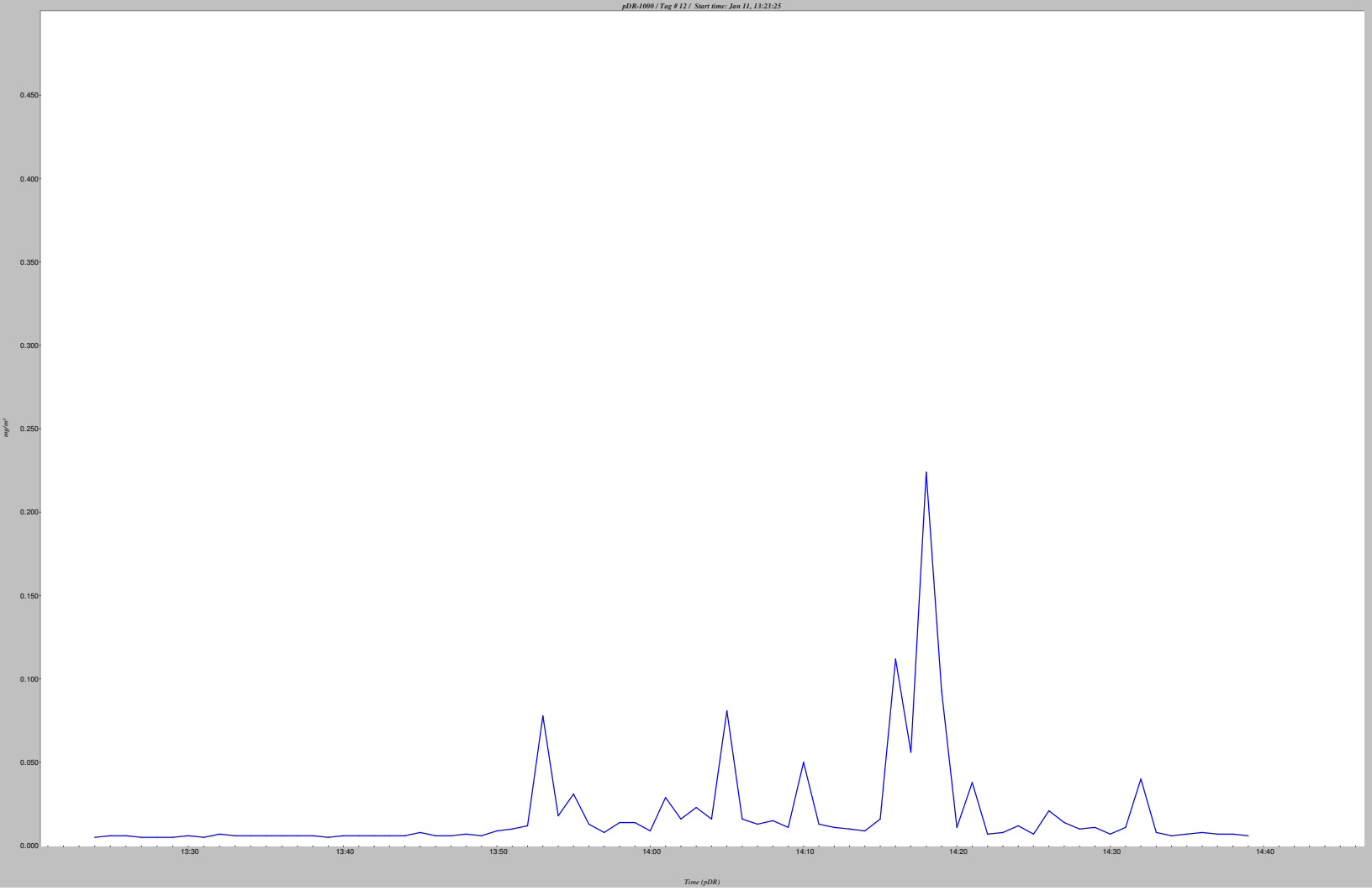
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	11:43:19	0.012
2	11 Jan	11:44:19	0.012
3	11 Jan	11:45:19	0.007
4	11 Jan	11:46:19	0.007
5	11 Jan	11:47:19	0.007
6	11 Jan	11:48:19	0.007
7	11 Jan	11:49:19	0.005
8	11 Jan	11:50:19	0.009
9	11 Jan	11:51:19	0.005
10	11 Jan	11:52:19	0.004
11	11 Jan	11:53:19	0.005
12	11 Jan	11:54:19	0.005
13	11 Jan	11:55:19	0.005
14	11 Jan	11:56:19	0.007
15	11 Jan	11:57:19	0.005
16	11 Jan	11:58:19	0.006
17	11 Jan	11:59:19	0.006
18	11 Jan	12:00:19	0.006
19	11 Jan	12:01:19	0.005
20	11 Jan	12:02:19	0.008
21	11 Jan	12:03:19	0.031
22	11 Jan	12:04:19	0.005
23	11 Jan	12:05:19	0.006
24	11 Jan	12:06:19	0.006
25	11 Jan	12:07:19	0.009
26	11 Jan	12:08:19	0.006
27	11 Jan	12:09:19	0.006
28	11 Jan	12:10:19	0.005
29	11 Jan	12:11:19	0.007
30	11 Jan	12:12:19	0.006
31	11 Jan	12:13:19	0.006
32	11 Jan	12:14:19	0.029
33	11 Jan	12:15:19	0.013
34	11 Jan	12:16:19	0.005
35	11 Jan	12:17:19	0.006
36	11 Jan	12:18:19	0.006
37	11 Jan	12:19:19	0.006
38	11 Jan	12:20:19	0.006
39	11 Jan	12:21:19	0.007
40	11 Jan	12:22:19	0.008
41	11 Jan	12:23:19	0.007
42	11 Jan	12:24:19	0.009
43	11 Jan	12:25:19	0.006
44	11 Jan	12:26:19	0.010
45	11 Jan	12:27:19	0.012
46	11 Jan	12:28:19	0.008
47	11 Jan	12:29:19	0.007
48	11 Jan	12:30:19	0.007
49	11 Jan	12:31:19	0.009
50	11 Jan	12:32:19	0.006
51	11 Jan	12:33:19	0.012
52	11 Jan	12:34:19	0.007
53	11 Jan	12:35:19	0.006
54	11 Jan	12:36:19	0.005
55	11 Jan	12:37:19	0.005
56	11 Jan	12:38:19	0.008
57	11 Jan	12:39:19	0.007

58, 11 Jan, 12:40:19, 0.007
59, 11 Jan, 12:41:19, 0.006
60, 11 Jan, 12:42:19, 0.006
61, 11 Jan, 12:43:19, 0.006
62, 11 Jan, 12:44:19, 0.007
63, 11 Jan, 12:45:19, 0.011
64, 11 Jan, 12:46:19, 0.008
65, 11 Jan, 12:47:19, 0.008
66, 11 Jan, 12:48:19, 0.006
67, 11 Jan, 12:49:19, 0.006
68, 11 Jan, 12:50:19, 0.007
69, 11 Jan, 12:51:19, 0.005
70, 11 Jan, 12:52:19, 0.005
71, 11 Jan, 12:53:19, 0.008
72, 11 Jan, 12:54:19, 0.006
73, 11 Jan, 12:55:19, 0.008
74, 11 Jan, 12:56:19, 0.005
75, 11 Jan, 12:57:19, 0.006
76, 11 Jan, 12:58:19, 0.007
77, 11 Jan, 12:59:19, 0.006
78, 11 Jan, 13:00:19, 0.007
79, 11 Jan, 13:01:19, 0.007
80, 11 Jan, 13:02:19, 0.006
81, 11 Jan, 13:03:19, 0.007
82, 11 Jan, 13:04:19, 0.008
83, 11 Jan, 13:05:19, 0.007
84, 11 Jan, 13:06:19, 0.007
85, 11 Jan, 13:07:19, 0.007
86, 11 Jan, 13:08:19, 0.007
87, 11 Jan, 13:09:19, 0.006
88, 11 Jan, 13:10:19, 0.005
89, 11 Jan, 13:11:19, 0.006
90, 11 Jan, 13:12:19, 0.006
91, 11 Jan, 13:13:19, 0.007
92, 11 Jan, 13:14:19, 0.015
93, 11 Jan, 13:15:19, 0.007
94, 11 Jan, 13:16:19, 0.007
95, 11 Jan, 13:17:19, 0.006
96, 11 Jan, 13:18:19, 0.007


pDR-1000 / Tag # 25 / Start time: Jan 16, 11:26:59
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
11:27
11:30
11:33
11:36
11:39
11:42
11:45
11:48
11:51
11:54
11:57
12:00
Time (pDR)

pDR-1000
Tag Number: 25
Number of logged points: 33
Start time and date: 11:26:59 16-Jan
Elapsed time: 00:33:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.101 mg/m³
Time at maximum: 11:31:16 Jan 16
Max STEL Concentration: 0.007 mg/m³
Time at max STEL: 11:39:59 Jan 16
Overall Avg Conc: 0.005 mg/m³
Logged Data:

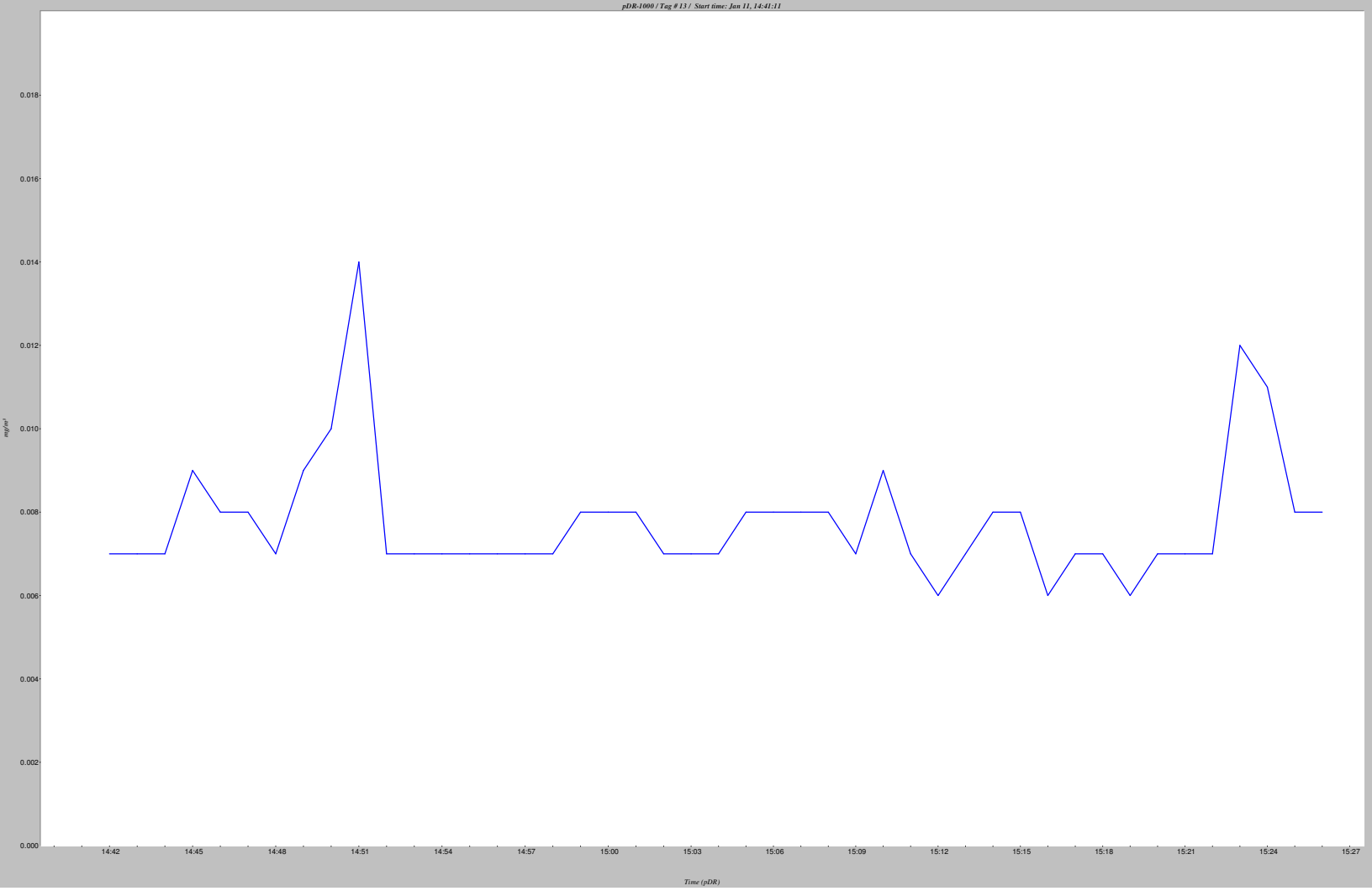
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	11:27:59	0.005
2	16 Jan	11:28:59	0.003
3	16 Jan	11:29:59	0.002
4	16 Jan	11:30:59	0.001
5	16 Jan	11:31:59	0.029
6	16 Jan	11:32:59	0.014
7	16 Jan	11:33:59	0.009
8	16 Jan	11:34:59	0.008
9	16 Jan	11:35:59	0.014
10	16 Jan	11:36:59	0.002
11	16 Jan	11:37:59	0.004
12	16 Jan	11:38:59	0.003
13	16 Jan	11:39:59	0.006
14	16 Jan	11:40:59	0.006
15	16 Jan	11:41:59	0.003
16	16 Jan	11:42:59	0.004
17	16 Jan	11:43:59	0.001
18	16 Jan	11:44:59	0.001
19	16 Jan	11:45:59	0.001
20	16 Jan	11:46:59	0.001
21	16 Jan	11:47:59	0.013
22	16 Jan	11:48:59	0.007
23	16 Jan	11:49:59	0.007
24	16 Jan	11:50:59	0.006
25	16 Jan	11:51:59	0.005
26	16 Jan	11:52:59	0.001
27	16 Jan	11:53:59	0.000
28	16 Jan	11:54:59	0.002
29	16 Jan	11:55:59	0.001
30	16 Jan	11:56:59	0.010
31	16 Jan	11:57:59	0.001
32	16 Jan	11:58:59	0.004
33	16 Jan	11:59:59	0.004


pDR-1000 / Tag # 12 / Start time: Jan 11, 13:23:25
0.450
0.400
0.350
0.300
0.250
0.200
0.150
0.100
0.050
0.000
mg/m³
13:30
13:40
13:50
14:00
14:10
14:20
14:30
14:40
Time (pDR)

pDR-1000
Tag Number: 12
Number of logged points: 76
Start time and date: 13:23:25 11-Jan
Elapsed time: 01:16:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.536 mg/m³
Time at maximum: 14:18:33 Jan 11
Max STEL Concentration: 0.049 mg/m³
Time at max STEL: 14:18:56 Jan 11
Overall Avg Conc: 0.019 mg/m³
Logged Data:

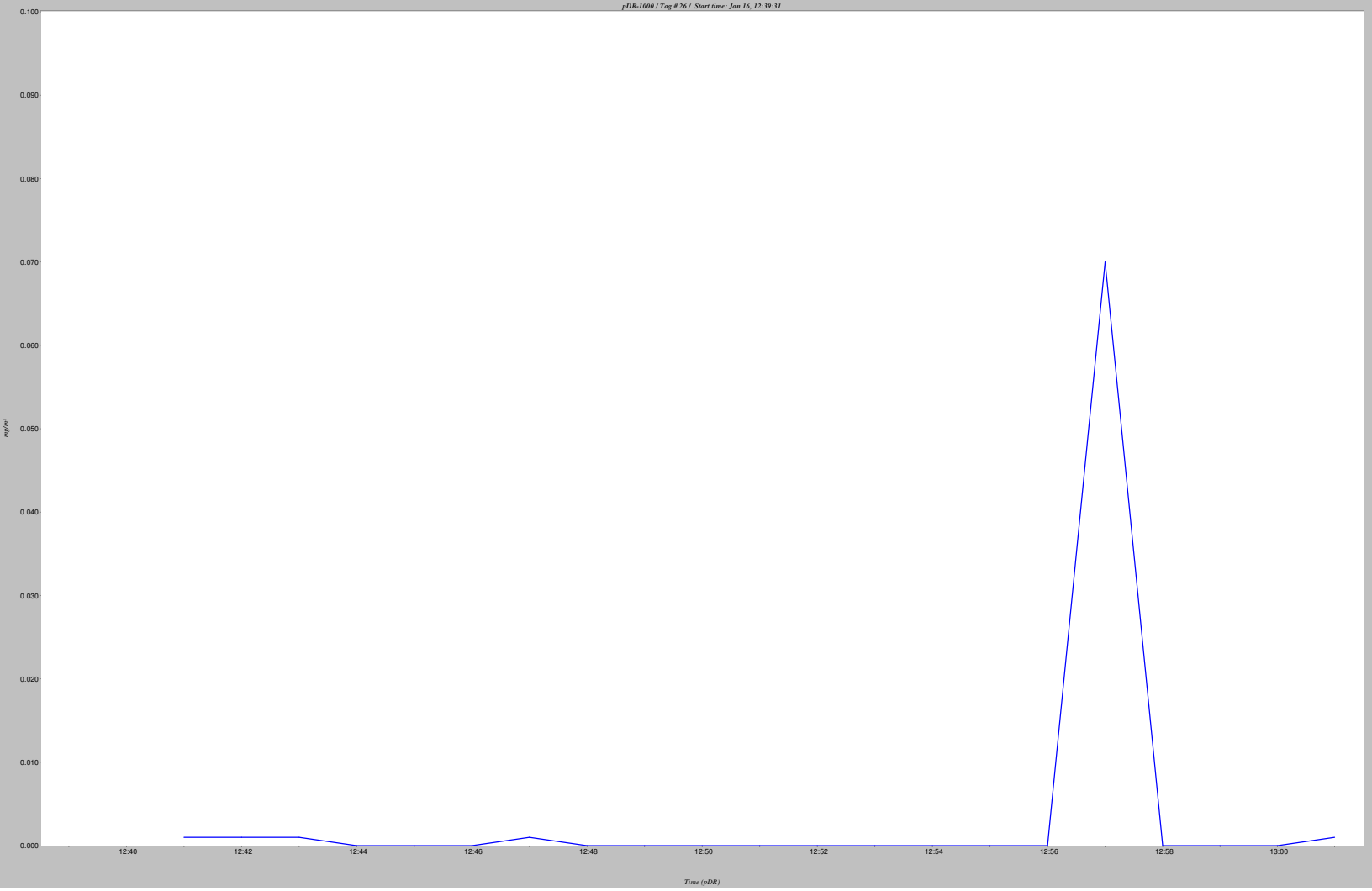
Point	Date	Time	Avg.(mg/m³)
1	11 Jan	13:24:25	0.005
2	11 Jan	13:25:25	0.006
3	11 Jan	13:26:25	0.006
4	11 Jan	13:27:25	0.005
5	11 Jan	13:28:25	0.005
6	11 Jan	13:29:25	0.005
7	11 Jan	13:30:25	0.006
8	11 Jan	13:31:25	0.005
9	11 Jan	13:32:25	0.007
10	11 Jan	13:33:25	0.006
11	11 Jan	13:34:25	0.006
12	11 Jan	13:35:25	0.006
13	11 Jan	13:36:25	0.006
14	11 Jan	13:37:25	0.006
15	11 Jan	13:38:25	0.006
16	11 Jan	13:39:25	0.005
17	11 Jan	13:40:25	0.006
18	11 Jan	13:41:25	0.006
19	11 Jan	13:42:25	0.006
20	11 Jan	13:43:25	0.006
21	11 Jan	13:44:25	0.006
22	11 Jan	13:45:25	0.008
23	11 Jan	13:46:25	0.006
24	11 Jan	13:47:25	0.006
25	11 Jan	13:48:25	0.007
26	11 Jan	13:49:25	0.006
27	11 Jan	13:50:25	0.009
28	11 Jan	13:51:25	0.010
29	11 Jan	13:52:25	0.012
30	11 Jan	13:53:25	0.078
31	11 Jan	13:54:25	0.018
32	11 Jan	13:55:25	0.031
33	11 Jan	13:56:25	0.013
34	11 Jan	13:57:25	0.008
35	11 Jan	13:58:25	0.014
36	11 Jan	13:59:25	0.014
37	11 Jan	14:00:25	0.009
38	11 Jan	14:01:25	0.029
39	11 Jan	14:02:25	0.016
40	11 Jan	14:03:25	0.023
41	11 Jan	14:04:25	0.016
42	11 Jan	14:05:25	0.081
43	11 Jan	14:06:25	0.016
44	11 Jan	14:07:25	0.013
45	11 Jan	14:08:25	0.015
46	11 Jan	14:09:25	0.011
47	11 Jan	14:10:25	0.050
48	11 Jan	14:11:25	0.013
49	11 Jan	14:12:25	0.011
50	11 Jan	14:13:25	0.010
51	11 Jan	14:14:25	0.009
52	11 Jan	14:15:25	0.016
53	11 Jan	14:16:25	0.112
54	11 Jan	14:17:25	0.056
55	11 Jan	14:18:25	0.224
56	11 Jan	14:19:25	0.093
57	11 Jan	14:20:25	0.011

58, 11 Jan, 14:21:25, 0.038
59, 11 Jan, 14:22:25, 0.007
60, 11 Jan, 14:23:25, 0.008
61, 11 Jan, 14:24:25, 0.012
62, 11 Jan, 14:25:25, 0.007
63, 11 Jan, 14:26:25, 0.021
64, 11 Jan, 14:27:25, 0.014
65, 11 Jan, 14:28:25, 0.010
66, 11 Jan, 14:29:25, 0.011
67, 11 Jan, 14:30:25, 0.007
68, 11 Jan, 14:31:25, 0.011
69, 11 Jan, 14:32:25, 0.040
70, 11 Jan, 14:33:25, 0.008
71, 11 Jan, 14:34:25, 0.006
72, 11 Jan, 14:35:25, 0.007
73, 11 Jan, 14:36:25, 0.008
74, 11 Jan, 14:37:25, 0.007
75, 11 Jan, 14:38:25, 0.007
76, 11 Jan, 14:39:25, 0.006


pDR-1000 / Tag # 13 / Start time: Jan 11, 14:41:11
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
mg/m³
14:42
14:45
14:48
14:51
14:54
14:57
15:00
15:03
15:06
15:09
15:12
15:15
15:18
15:21
15:24
15:27
Time (pDR)

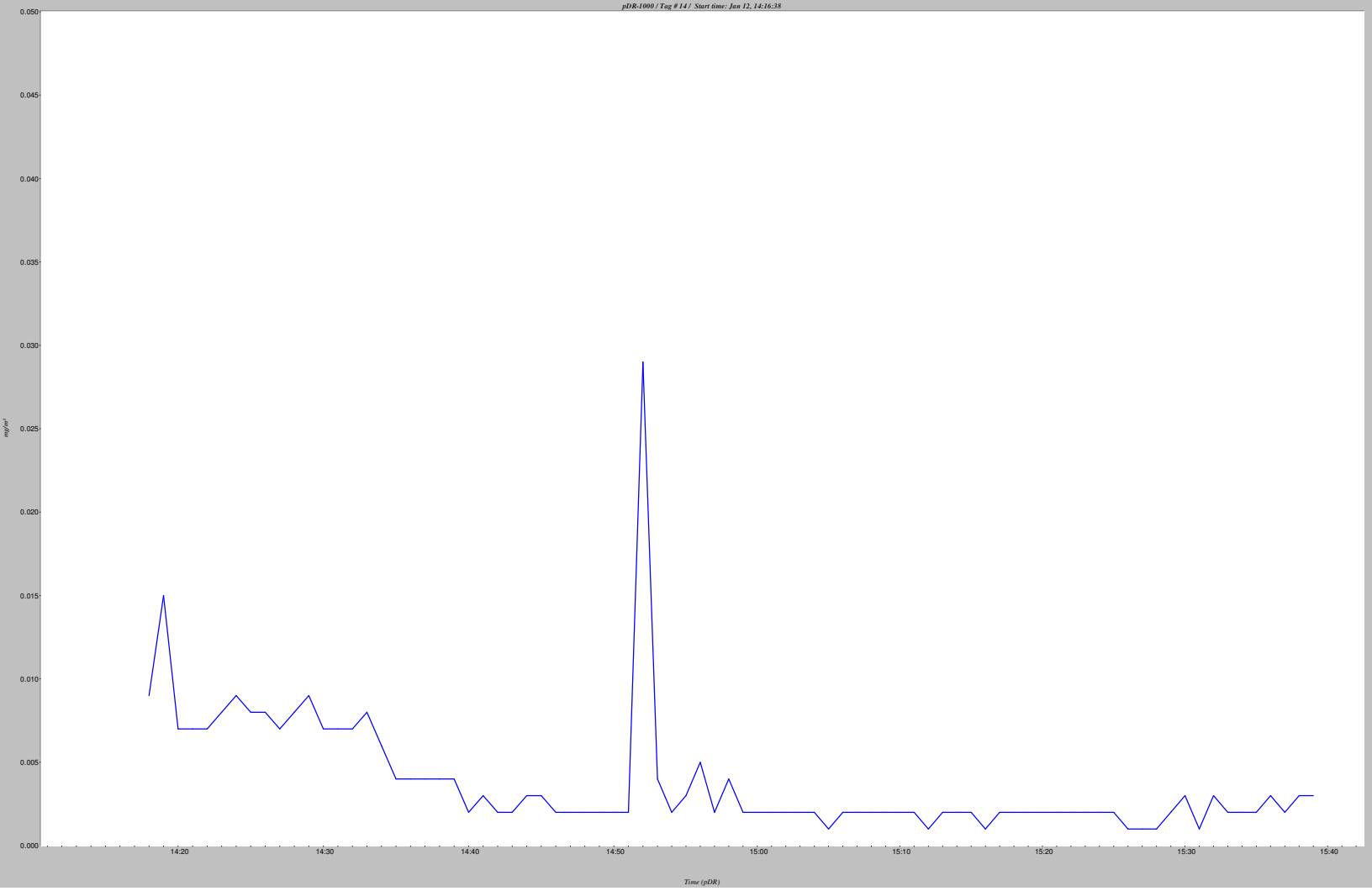
pDR-1000
Tag Number: 13
Number of logged points: 45
Start time and date: 14:41:11 11-Jan
Elapsed time: 00:45:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.042 mg/m³
Time at maximum: 14:50:51 Jan 11
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 14:55:11 Jan 11
Overall Avg Conc: 0.008 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	11 Jan	14:42:11	0.007
2	11 Jan	14:43:11	0.007
3	11 Jan	14:44:11	0.007
4	11 Jan	14:45:11	0.009
5	11 Jan	14:46:11	0.008
6	11 Jan	14:47:11	0.008
7	11 Jan	14:48:11	0.007
8	11 Jan	14:49:11	0.009
9	11 Jan	14:50:11	0.010
10	11 Jan	14:51:11	0.014
11	11 Jan	14:52:11	0.007
12	11 Jan	14:53:11	0.007
13	11 Jan	14:54:11	0.007
14	11 Jan	14:55:11	0.007
15	11 Jan	14:56:11	0.007
16	11 Jan	14:57:11	0.007
17	11 Jan	14:58:11	0.007
18	11 Jan	14:59:11	0.008
19	11 Jan	15:00:11	0.008
20	11 Jan	15:01:11	0.008
21	11 Jan	15:02:11	0.007
22	11 Jan	15:03:11	0.007
23	11 Jan	15:04:11	0.007
24	11 Jan	15:05:11	0.008
25	11 Jan	15:06:11	0.008
26	11 Jan	15:07:11	0.008
27	11 Jan	15:08:11	0.008
28	11 Jan	15:09:11	0.007
29	11 Jan	15:10:11	0.009
30	11 Jan	15:11:11	0.007
31	11 Jan	15:12:11	0.006
32	11 Jan	15:13:11	0.007
33	11 Jan	15:14:11	0.008
34	11 Jan	15:15:11	0.008
35	11 Jan	15:16:11	0.006
36	11 Jan	15:17:11	0.007
37	11 Jan	15:18:11	0.007
38	11 Jan	15:19:11	0.006
39	11 Jan	15:20:11	0.007
40	11 Jan	15:21:11	0.007
41	11 Jan	15:22:11	0.007
42	11 Jan	15:23:11	0.012
43	11 Jan	15:24:11	0.011
44	11 Jan	15:25:11	0.008
45	11 Jan	15:26:11	0.008


pDR-1000 / Tag # 26 / Start time: Jan 16, 12:39:31
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
12:40
12:42
12:44
12:46
12:48
12:50
12:52
12:54
12:56
12:58
13:00
Time (pDR)

pDR-1000
Tag Number: 26
Number of logged points: 21
Start time and date: 12:39:31 16-Jan
Elapsed time: 00:21:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.332 mg/m³
Time at maximum: 12:55:52 Jan 16
Max STEL Concentration: 0.003 mg/m³
Time at max STEL: 12:56:31 Jan 16
Overall Avg Conc: 0.002 mg/m³
Logged Data:

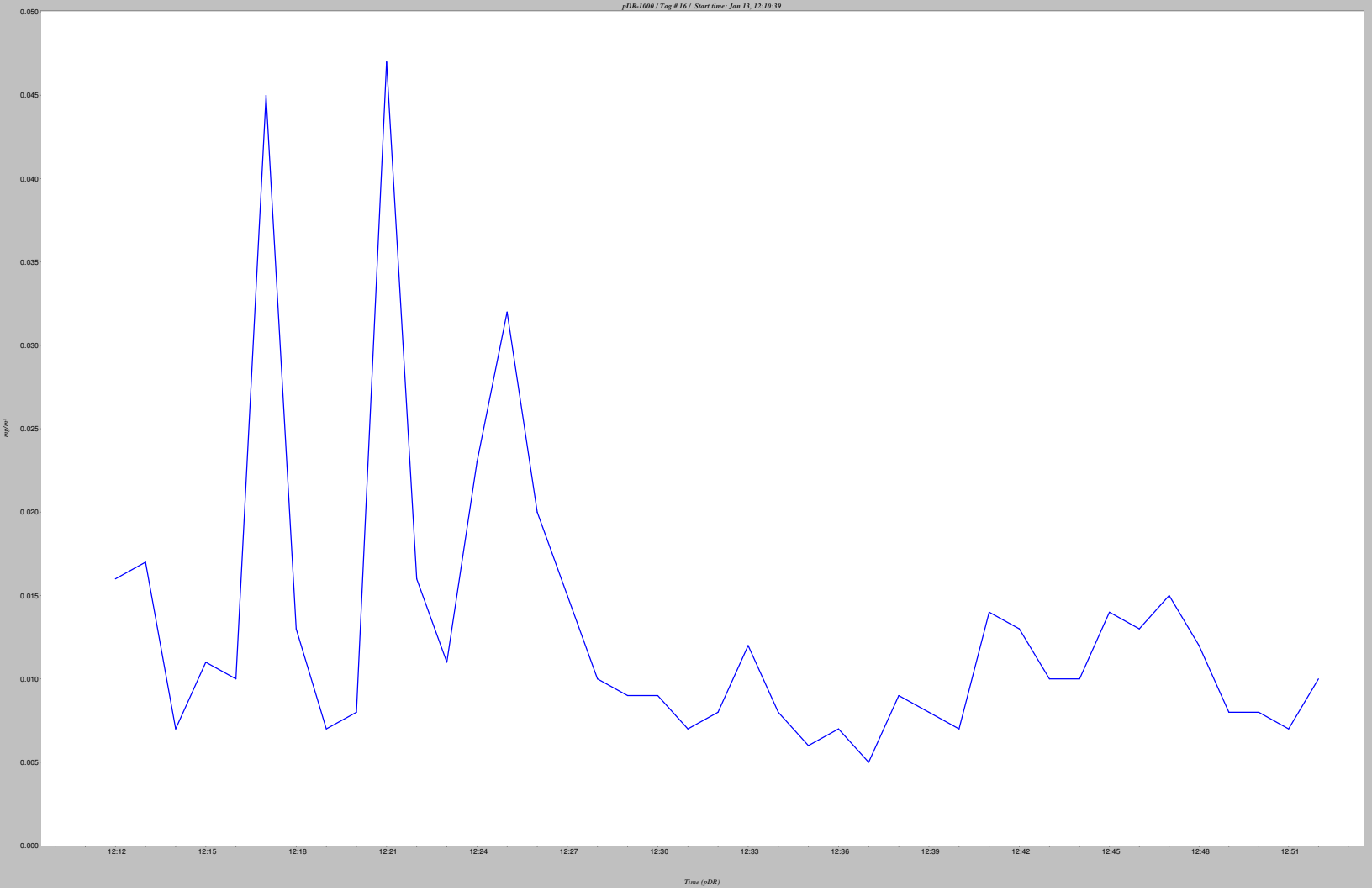
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	12:40:31	0.001
2	16 Jan	12:41:31	0.001
3	16 Jan	12:42:31	0.001
4	16 Jan	12:43:31	0.000
5	16 Jan	12:44:31	0.000
6	16 Jan	12:45:31	0.000
7	16 Jan	12:46:31	0.001
8	16 Jan	12:47:31	0.000
9	16 Jan	12:48:31	0.000
10	16 Jan	12:49:31	0.000
11	16 Jan	12:50:31	0.000
12	16 Jan	12:51:31	0.000
13	16 Jan	12:52:31	0.000
14	16 Jan	12:53:31	0.000
15	16 Jan	12:54:31	0.000
16	16 Jan	12:55:31	0.000
17	16 Jan	12:56:31	0.070
18	16 Jan	12:57:31	0.000
19	16 Jan	12:58:31	0.000
20	16 Jan	12:59:31	0.000
21	16 Jan	13:00:31	0.001


pDR-1000 / Tag # 14 / Start time: Jan 12, 14:16:38
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
14:20
14:30
14:40
14:50
15:00
15:10
15:20
15:30
15:40
Time (pDR)

pDR-1000
Tag Number: 14
Number of logged points: 82
Start time and date: 14:16:38 12-Jan
Elapsed time: 01:22:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.132 mg/m³
Time at maximum: 14:51:19 Jan 12
Max STEL Concentration: 0.008 mg/m³
Time at max STEL: 14:30:08 Jan 12
Overall Avg Conc: 0.004 mg/m³
Logged Data:

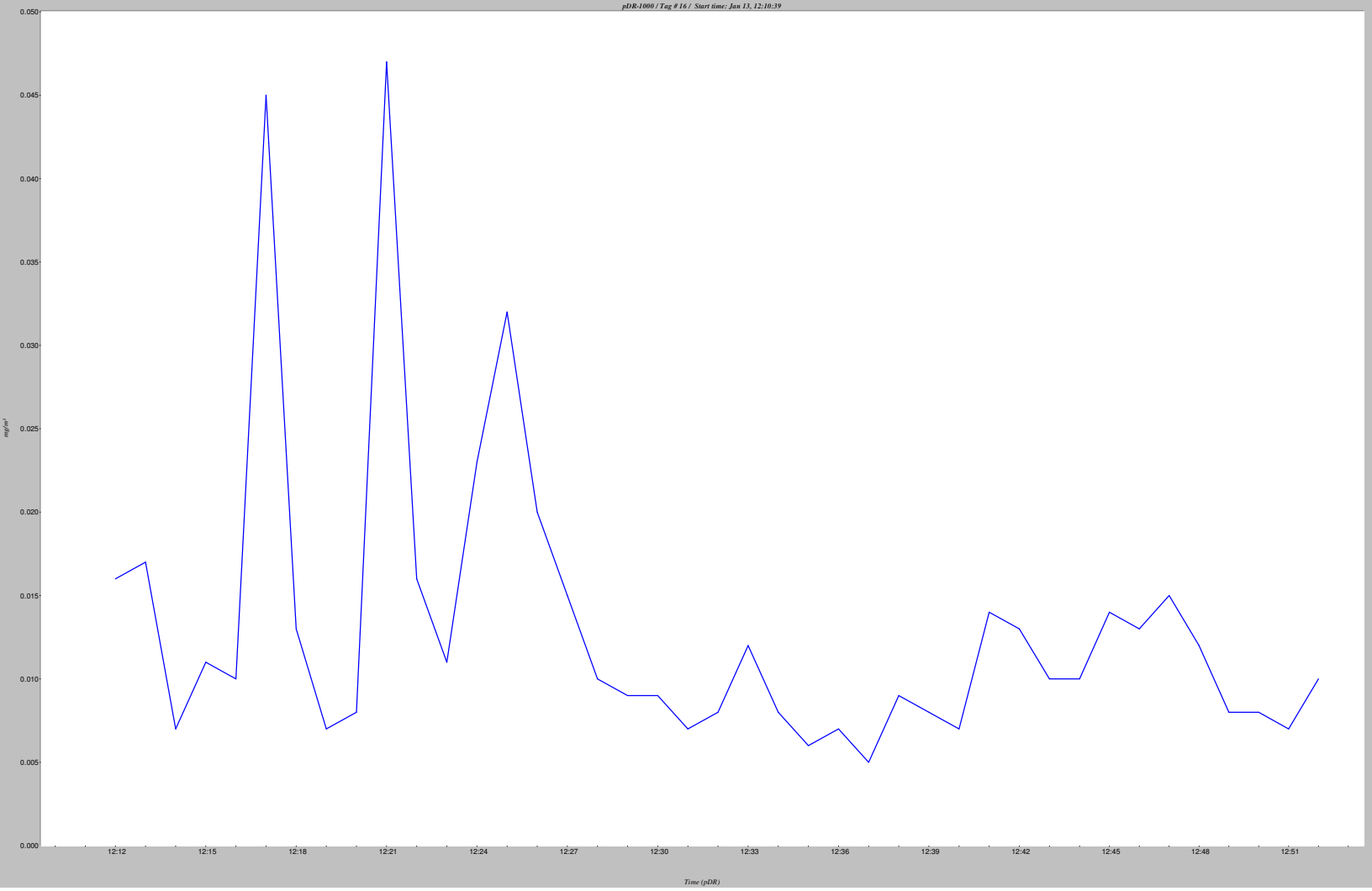
Point	Date	Time	Avg.(mg/m³)
1	12 Jan	14:17:38	0.009
2	12 Jan	14:18:38	0.015
3	12 Jan	14:19:38	0.007
4	12 Jan	14:20:38	0.007
5	12 Jan	14:21:38	0.007
6	12 Jan	14:22:38	0.008
7	12 Jan	14:23:38	0.009
8	12 Jan	14:24:38	0.008
9	12 Jan	14:25:38	0.008
10	12 Jan	14:26:38	0.007
11	12 Jan	14:27:38	0.008
12	12 Jan	14:28:38	0.009
13	12 Jan	14:29:38	0.007
14	12 Jan	14:30:38	0.007
15	12 Jan	14:31:38	0.007
16	12 Jan	14:32:38	0.008
17	12 Jan	14:33:38	0.006
18	12 Jan	14:34:38	0.004
19	12 Jan	14:35:38	0.004
20	12 Jan	14:36:38	0.004
21	12 Jan	14:37:38	0.004
22	12 Jan	14:38:38	0.004
23	12 Jan	14:39:38	0.002
24	12 Jan	14:40:38	0.003
25	12 Jan	14:41:38	0.002
26	12 Jan	14:42:38	0.002
27	12 Jan	14:43:38	0.003
28	12 Jan	14:44:38	0.003
29	12 Jan	14:45:38	0.002
30	12 Jan	14:46:38	0.002
31	12 Jan	14:47:38	0.002
32	12 Jan	14:48:38	0.002
33	12 Jan	14:49:38	0.002
34	12 Jan	14:50:38	0.002
35	12 Jan	14:51:38	0.029
36	12 Jan	14:52:38	0.004
37	12 Jan	14:53:38	0.002
38	12 Jan	14:54:38	0.003
39	12 Jan	14:55:38	0.005
40	12 Jan	14:56:38	0.002
41	12 Jan	14:57:38	0.004
42	12 Jan	14:58:38	0.002
43	12 Jan	14:59:38	0.002
44	12 Jan	15:00:38	0.002
45	12 Jan	15:01:38	0.002
46	12 Jan	15:02:38	0.002
47	12 Jan	15:03:38	0.002
48	12 Jan	15:04:38	0.001
49	12 Jan	15:05:38	0.002
50	12 Jan	15:06:38	0.002
51	12 Jan	15:07:38	0.002
52	12 Jan	15:08:38	0.002
53	12 Jan	15:09:38	0.002
54	12 Jan	15:10:38	0.002
55	12 Jan	15:11:38	0.001
56	12 Jan	15:12:38	0.002
57	12 Jan	15:13:38	0.002

58, 12 Jan, 15:14:38, 0.002
59, 12 Jan, 15:15:38, 0.001
60, 12 Jan, 15:16:38, 0.002
61, 12 Jan, 15:17:38, 0.002
62, 12 Jan, 15:18:38, 0.002
63, 12 Jan, 15:19:38, 0.002
64, 12 Jan, 15:20:38, 0.002
65, 12 Jan, 15:21:38, 0.002
66, 12 Jan, 15:22:38, 0.002
67, 12 Jan, 15:23:38, 0.002
68, 12 Jan, 15:24:38, 0.002
69, 12 Jan, 15:25:38, 0.001
70, 12 Jan, 15:26:38, 0.001
71, 12 Jan, 15:27:38, 0.001
72, 12 Jan, 15:28:38, 0.002
73, 12 Jan, 15:29:38, 0.003
74, 12 Jan, 15:30:38, 0.001
75, 12 Jan, 15:31:38, 0.003
76, 12 Jan, 15:32:38, 0.002
77, 12 Jan, 15:33:38, 0.002
78, 12 Jan, 15:34:38, 0.002
79, 12 Jan, 15:35:38, 0.003
80, 12 Jan, 15:36:38, 0.002
81, 12 Jan, 15:37:38, 0.003
82, 12 Jan, 15:38:38, 0.003


pDR-1000 / Tag # 16 / Start time: Jan 13, 12:10:39
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
12:12
12:15
12:18
12:21
12:24
12:27
12:30
12:33
12:36
12:39
12:42
12:45
12:48
12:51
Time (pDR)

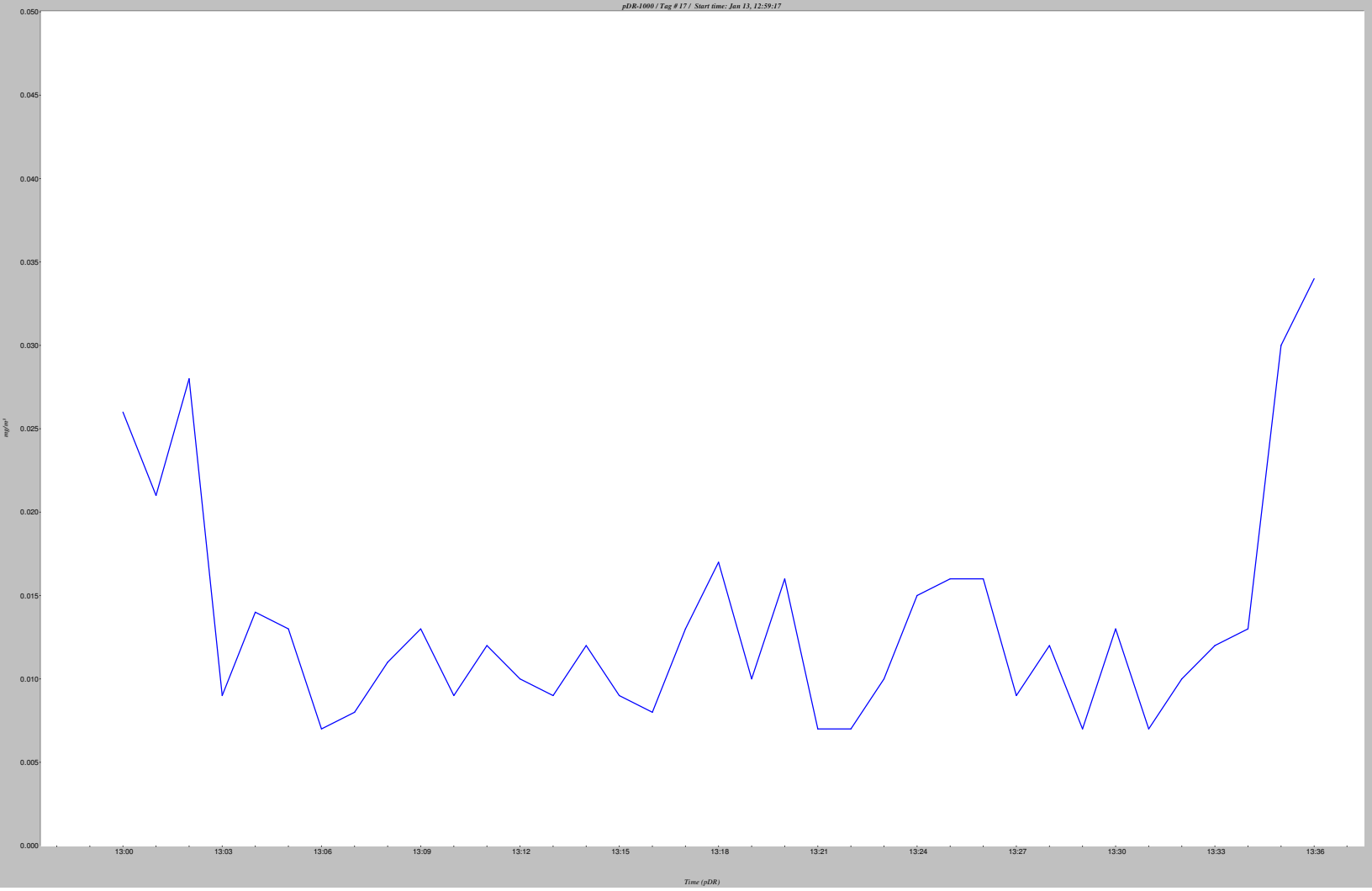
pDR-1000
Tag Number: 16
Number of logged points: 41
Start time and date: 12:10:39 13-Jan
Elapsed time: 00:41:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.198 mg/m³
Time at maximum: 12:19:47 Jan 13
Max STEL Concentration: 0.019 mg/m³
Time at max STEL: 12:25:40 Jan 13
Overall Avg Conc: 0.014 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	12:11:39	0.016
2	13 Jan	12:12:39	0.017
3	13 Jan	12:13:39	0.007
4	13 Jan	12:14:39	0.011
5	13 Jan	12:15:39	0.010
6	13 Jan	12:16:39	0.045
7	13 Jan	12:17:39	0.013
8	13 Jan	12:18:39	0.007
9	13 Jan	12:19:39	0.008
10	13 Jan	12:20:39	0.047
11	13 Jan	12:21:39	0.016
12	13 Jan	12:22:39	0.011
13	13 Jan	12:23:39	0.023
14	13 Jan	12:24:39	0.032
15	13 Jan	12:25:39	0.020
16	13 Jan	12:26:39	0.015
17	13 Jan	12:27:39	0.010
18	13 Jan	12:28:39	0.009
19	13 Jan	12:29:39	0.009
20	13 Jan	12:30:39	0.007
21	13 Jan	12:31:39	0.008
22	13 Jan	12:32:39	0.012
23	13 Jan	12:33:39	0.008
24	13 Jan	12:34:39	0.006
25	13 Jan	12:35:39	0.007
26	13 Jan	12:36:39	0.005
27	13 Jan	12:37:39	0.009
28	13 Jan	12:38:39	0.008
29	13 Jan	12:39:39	0.007
30	13 Jan	12:40:39	0.014
31	13 Jan	12:41:39	0.013
32	13 Jan	12:42:39	0.010
33	13 Jan	12:43:39	0.010
34	13 Jan	12:44:39	0.014
35	13 Jan	12:45:39	0.013
36	13 Jan	12:46:39	0.015
37	13 Jan	12:47:39	0.012
38	13 Jan	12:48:39	0.008
39	13 Jan	12:49:39	0.008
40	13 Jan	12:50:39	0.007
41	13 Jan	12:51:39	0.010


pDR-1000 / Tag # 16 / Start time: Jan 13, 12:10:39
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
12:12
12:15
12:18
12:21
12:24
12:27
12:30
12:33
12:36
12:39
12:42
12:45
12:48
12:51
Time (pDR)

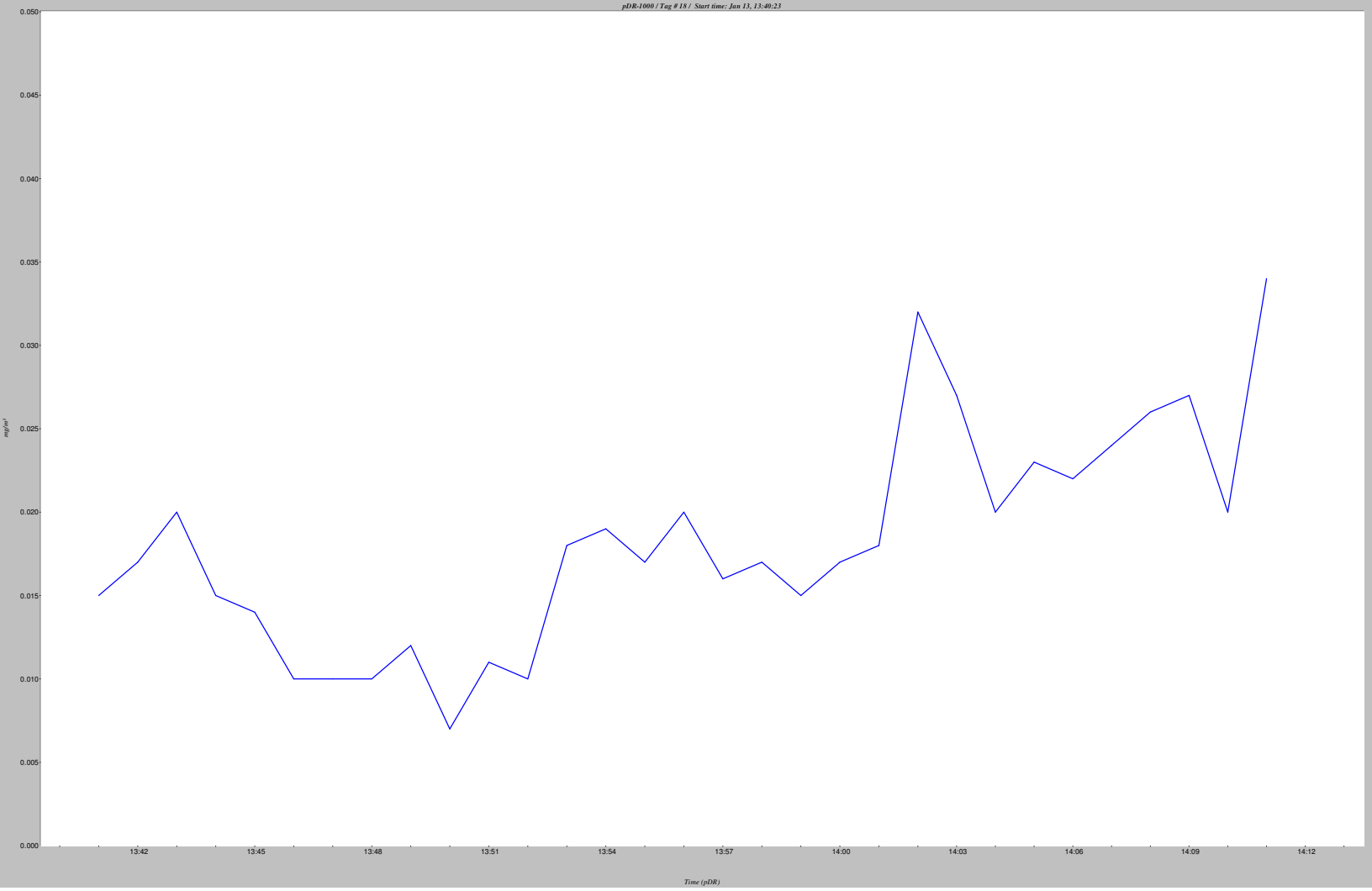
pDR-1000
Tag Number: 16
Number of logged points: 41
Start time and date: 12:10:39 13-Jan
Elapsed time: 00:41:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.198 mg/m³
Time at maximum: 12:19:47 Jan 13
Max STEL Concentration: 0.019 mg/m³
Time at max STEL: 12:25:40 Jan 13
Overall Avg Conc: 0.014 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	12:11:39	0.016
2	13 Jan	12:12:39	0.017
3	13 Jan	12:13:39	0.007
4	13 Jan	12:14:39	0.011
5	13 Jan	12:15:39	0.010
6	13 Jan	12:16:39	0.045
7	13 Jan	12:17:39	0.013
8	13 Jan	12:18:39	0.007
9	13 Jan	12:19:39	0.008
10	13 Jan	12:20:39	0.047
11	13 Jan	12:21:39	0.016
12	13 Jan	12:22:39	0.011
13	13 Jan	12:23:39	0.023
14	13 Jan	12:24:39	0.032
15	13 Jan	12:25:39	0.020
16	13 Jan	12:26:39	0.015
17	13 Jan	12:27:39	0.010
18	13 Jan	12:28:39	0.009
19	13 Jan	12:29:39	0.009
20	13 Jan	12:30:39	0.007
21	13 Jan	12:31:39	0.008
22	13 Jan	12:32:39	0.012
23	13 Jan	12:33:39	0.008
24	13 Jan	12:34:39	0.006
25	13 Jan	12:35:39	0.007
26	13 Jan	12:36:39	0.005
27	13 Jan	12:37:39	0.009
28	13 Jan	12:38:39	0.008
29	13 Jan	12:39:39	0.007
30	13 Jan	12:40:39	0.014
31	13 Jan	12:41:39	0.013
32	13 Jan	12:42:39	0.010
33	13 Jan	12:43:39	0.010
34	13 Jan	12:44:39	0.014
35	13 Jan	12:45:39	0.013
36	13 Jan	12:46:39	0.015
37	13 Jan	12:47:39	0.012
38	13 Jan	12:48:39	0.008
39	13 Jan	12:49:39	0.008
40	13 Jan	12:50:39	0.007
41	13 Jan	12:51:39	0.010


pDR-1000 / Tag # 17 / Start time: Jan 13, 12:59:17
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
13:00
13:03
13:06
13:09
13:12
13:15
13:18
13:21
13:24
13:27
13:30
13:33
13:36
Time (pDR)

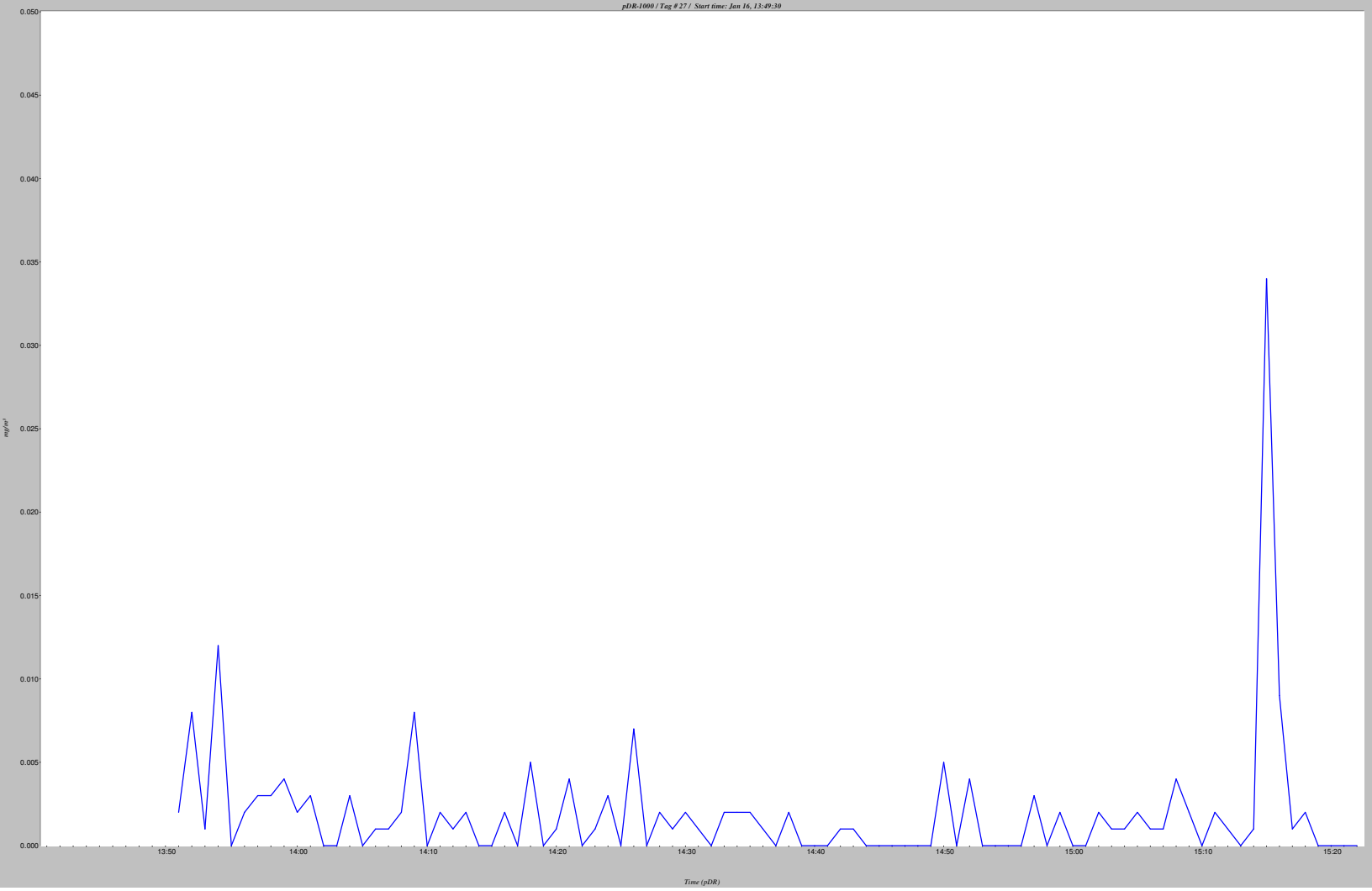
pDR-1000
Tag Number: 17
Number of logged points: 37
Start time and date: 12:59:17 13-Jan
Elapsed time: 00:37:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.115 mg/m³
Time at maximum: 13:35:02 Jan 13
Max STEL Concentration: 0.015 mg/m³
Time at max STEL: 13:36:47 Jan 13
Overall Avg Conc: 0.013 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	13 Jan	13:00:17	0.026
2	13 Jan	13:01:17	0.021
3	13 Jan	13:02:17	0.028
4	13 Jan	13:03:17	0.009
5	13 Jan	13:04:17	0.014
6	13 Jan	13:05:17	0.013
7	13 Jan	13:06:17	0.007
8	13 Jan	13:07:17	0.008
9	13 Jan	13:08:17	0.011
10	13 Jan	13:09:17	0.013
11	13 Jan	13:10:17	0.009
12	13 Jan	13:11:17	0.012
13	13 Jan	13:12:17	0.010
14	13 Jan	13:13:17	0.009
15	13 Jan	13:14:17	0.012
16	13 Jan	13:15:17	0.009
17	13 Jan	13:16:17	0.008
18	13 Jan	13:17:17	0.013
19	13 Jan	13:18:17	0.017
20	13 Jan	13:19:17	0.010
21	13 Jan	13:20:17	0.016
22	13 Jan	13:21:17	0.007
23	13 Jan	13:22:17	0.007
24	13 Jan	13:23:17	0.010
25	13 Jan	13:24:17	0.015
26	13 Jan	13:25:17	0.016
27	13 Jan	13:26:17	0.016
28	13 Jan	13:27:17	0.009
29	13 Jan	13:28:17	0.012
30	13 Jan	13:29:17	0.007
31	13 Jan	13:30:17	0.013
32	13 Jan	13:31:17	0.007
33	13 Jan	13:32:17	0.010
34	13 Jan	13:33:17	0.012
35	13 Jan	13:34:17	0.013
36	13 Jan	13:35:17	0.030
37	13 Jan	13:36:17	0.034


pDR-1000 / Tag # 18 / Start time: Jan 13, 13:40:23
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
13:42
13:45
13:48
13:51
13:54
13:57
14:00
14:03
14:06
14:09
14:12
Time (pDR)

pDR-1000
Tag Number: 18
Number of logged points: 31
Start time and date: 13:40:23 13-Jan
Elapsed time: 00:31:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.078 mg/m³
Time at maximum: 14:10:50 Jan 13
Max STEL Concentration: 0.022 mg/m³
Time at max STEL: 14:10:23 Jan 13
Overall Avg Conc: 0.018 mg/m³
Logged Data:

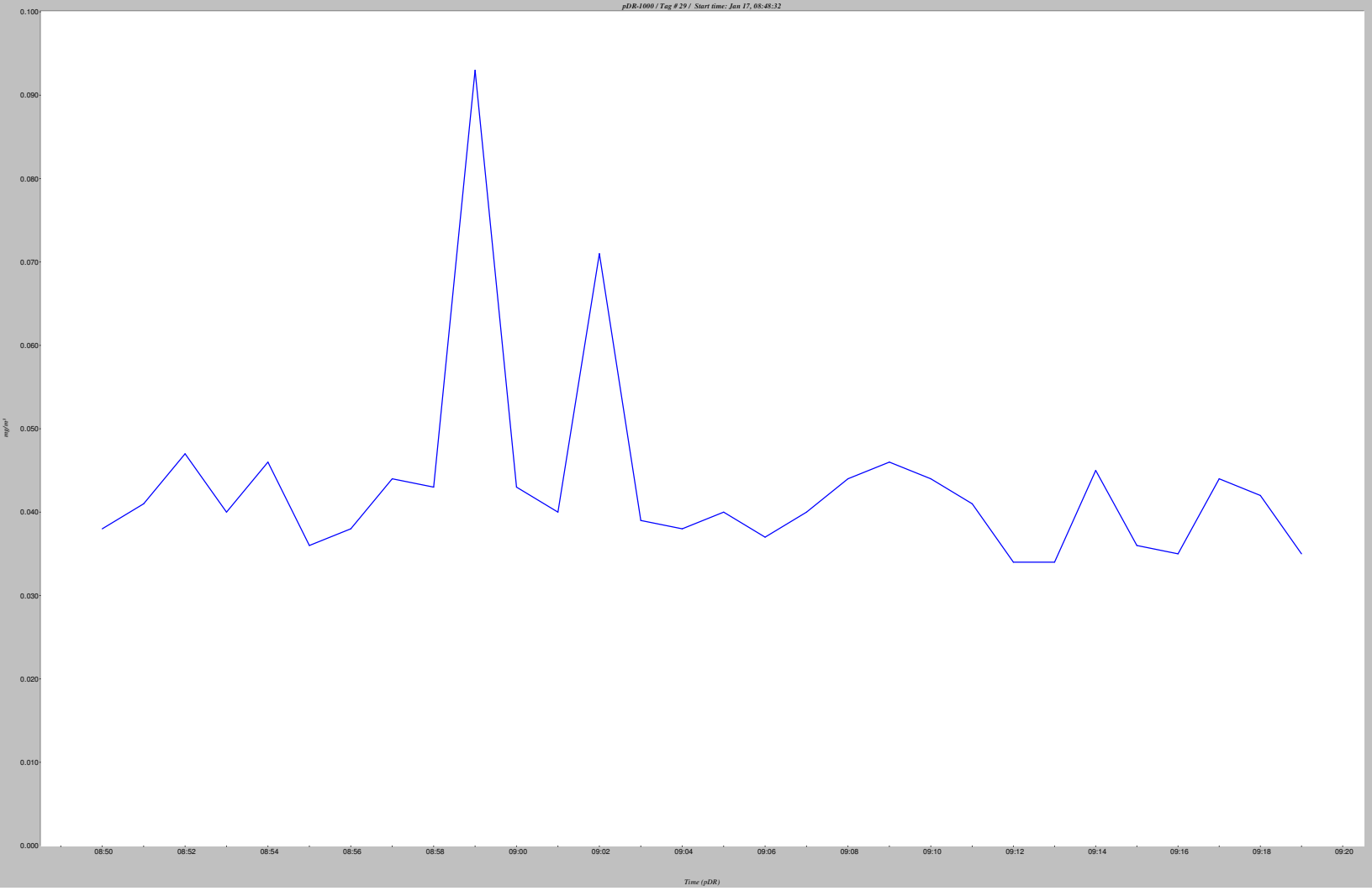
Point	Date	Time	Avg.(mg/m³)
1	13 Jan	13:41:23	0.015
2	13 Jan	13:42:23	0.017
3	13 Jan	13:43:23	0.020
4	13 Jan	13:44:23	0.015
5	13 Jan	13:45:23	0.014
6	13 Jan	13:46:23	0.010
7	13 Jan	13:47:23	0.010
8	13 Jan	13:48:23	0.010
9	13 Jan	13:49:23	0.012
10	13 Jan	13:50:23	0.007
11	13 Jan	13:51:23	0.011
12	13 Jan	13:52:23	0.010
13	13 Jan	13:53:23	0.018
14	13 Jan	13:54:23	0.019
15	13 Jan	13:55:23	0.017
16	13 Jan	13:56:23	0.020
17	13 Jan	13:57:23	0.016
18	13 Jan	13:58:23	0.017
19	13 Jan	13:59:23	0.015
20	13 Jan	14:00:23	0.017
21	13 Jan	14:01:23	0.018
22	13 Jan	14:02:23	0.032
23	13 Jan	14:03:23	0.027
24	13 Jan	14:04:23	0.020
25	13 Jan	14:05:23	0.023
26	13 Jan	14:06:23	0.022
27	13 Jan	14:07:23	0.024
28	13 Jan	14:08:23	0.026
29	13 Jan	14:09:23	0.027
30	13 Jan	14:10:23	0.020
31	13 Jan	14:11:23	0.034


pDR-1000 / Tag # 27 / Start time: Jan 16, 13:49:30
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
13:50
14:00
14:10
14:20
14:30
14:40
14:50
15:00
15:10
15:20
Time (pDR)

pDR-1000
Tag Number: 27
Number of logged points: 92
Start time and date: 13:49:30 16-Jan
Elapsed time: 01:32:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.177 mg/m³
Time at maximum: 15:14:18 Jan 16
Max STEL Concentration: 0.002 mg/m³
Time at max STEL: 15:15:00 Jan 16
Overall Avg Conc: 0.000 mg/m³
Logged Data:

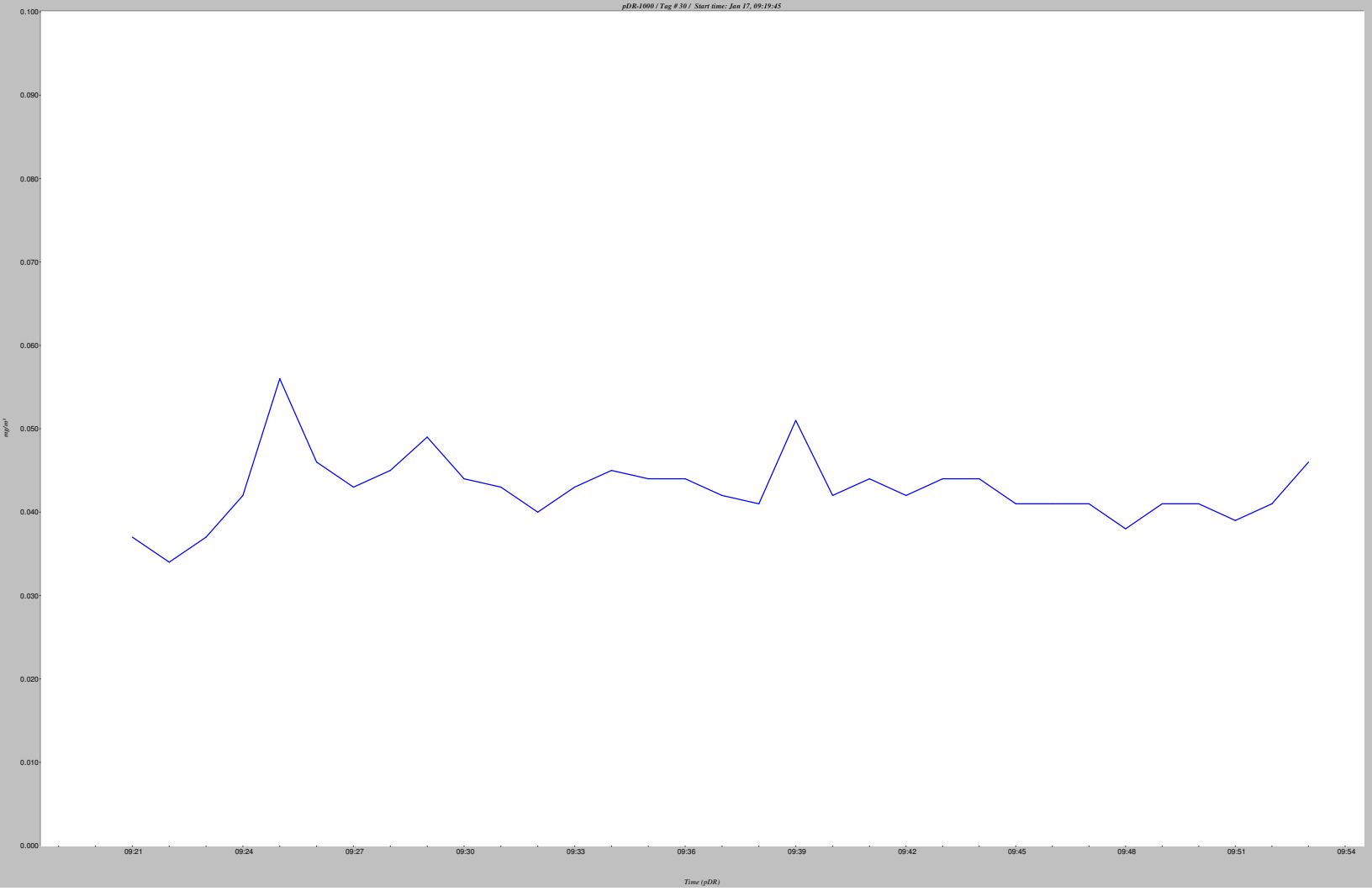
Point	Date	Time	Avg.(mg/m³)
1	16 Jan	13:50:30	0.002
2	16 Jan	13:51:30	0.008
3	16 Jan	13:52:30	0.001
4	16 Jan	13:53:30	0.012
5	16 Jan	13:54:30	0.000
6	16 Jan	13:55:30	0.002
7	16 Jan	13:56:30	0.003
8	16 Jan	13:57:30	0.003
9	16 Jan	13:58:30	0.004
10	16 Jan	13:59:30	0.002
11	16 Jan	14:00:30	0.003
12	16 Jan	14:01:30	0.000
13	16 Jan	14:02:30	0.000
14	16 Jan	14:03:30	0.003
15	16 Jan	14:04:30	0.000
16	16 Jan	14:05:30	0.001
17	16 Jan	14:06:30	0.001
18	16 Jan	14:07:30	0.002
19	16 Jan	14:08:30	0.008
20	16 Jan	14:09:30	0.000
21	16 Jan	14:10:30	0.002
22	16 Jan	14:11:30	0.001
23	16 Jan	14:12:30	0.002
24	16 Jan	14:13:30	0.000
25	16 Jan	14:14:30	0.000
26	16 Jan	14:15:30	0.002
27	16 Jan	14:16:30	0.000
28	16 Jan	14:17:30	0.005
29	16 Jan	14:18:30	0.000
30	16 Jan	14:19:30	0.001
31	16 Jan	14:20:30	0.004
32	16 Jan	14:21:30	0.000
33	16 Jan	14:22:30	0.001
34	16 Jan	14:23:30	0.003
35	16 Jan	14:24:30	0.000
36	16 Jan	14:25:30	0.007
37	16 Jan	14:26:30	0.000
38	16 Jan	14:27:30	0.002
39	16 Jan	14:28:30	0.001
40	16 Jan	14:29:30	0.002
41	16 Jan	14:30:30	0.001
42	16 Jan	14:31:30	0.000
43	16 Jan	14:32:30	0.002
44	16 Jan	14:33:30	0.002
45	16 Jan	14:34:30	0.002
46	16 Jan	14:35:30	0.001
47	16 Jan	14:36:30	0.000
48	16 Jan	14:37:30	0.002
49	16 Jan	14:38:30	0.000
50	16 Jan	14:39:30	0.000
51	16 Jan	14:40:30	0.000
52	16 Jan	14:41:30	0.001
53	16 Jan	14:42:30	0.001
54	16 Jan	14:43:30	0.000
55	16 Jan	14:44:30	0.000
56	16 Jan	14:45:30	0.000
57	16 Jan	14:46:30	0.000

58, 16 Jan, 14:47:30, 0.000
59, 16 Jan, 14:48:30, 0.000
60, 16 Jan, 14:49:30, 0.005
61, 16 Jan, 14:50:30, 0.000
62, 16 Jan, 14:51:30, 0.004
63, 16 Jan, 14:52:30, 0.000
64, 16 Jan, 14:53:30, 0.000
65, 16 Jan, 14:54:30, 0.000
66, 16 Jan, 14:55:30, 0.000
67, 16 Jan, 14:56:30, 0.003
68, 16 Jan, 14:57:30, 0.000
69, 16 Jan, 14:58:30, 0.002
70, 16 Jan, 14:59:30, 0.000
71, 16 Jan, 15:00:30, 0.000
72, 16 Jan, 15:01:30, 0.002
73, 16 Jan, 15:02:30, 0.001
74, 16 Jan, 15:03:30, 0.001
75, 16 Jan, 15:04:30, 0.002
76, 16 Jan, 15:05:30, 0.001
77, 16 Jan, 15:06:30, 0.001
78, 16 Jan, 15:07:30, 0.004
79, 16 Jan, 15:08:30, 0.002
80, 16 Jan, 15:09:30, 0.000
81, 16 Jan, 15:10:30, 0.002
82, 16 Jan, 15:11:30, 0.001
83, 16 Jan, 15:12:30, 0.000
84, 16 Jan, 15:13:30, 0.001
85, 16 Jan, 15:14:30, 0.034
86, 16 Jan, 15:15:30, 0.009
87, 16 Jan, 15:16:30, 0.001
88, 16 Jan, 15:17:30, 0.002
89, 16 Jan, 15:18:30, 0.000
90, 16 Jan, 15:19:30, 0.000
91, 16 Jan, 15:20:30, 0.000
92, 16 Jan, 15:21:30, 0.000


pDR-1000 / Tag # 29 / Start time: Jan 17, 08:48:32
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
08:50
08:52
08:54
08:56
08:58
09:00
09:02
09:04
09:06
09:08
09:10
09:12
09:14
09:16
09:18
09:20
Time (pDR)

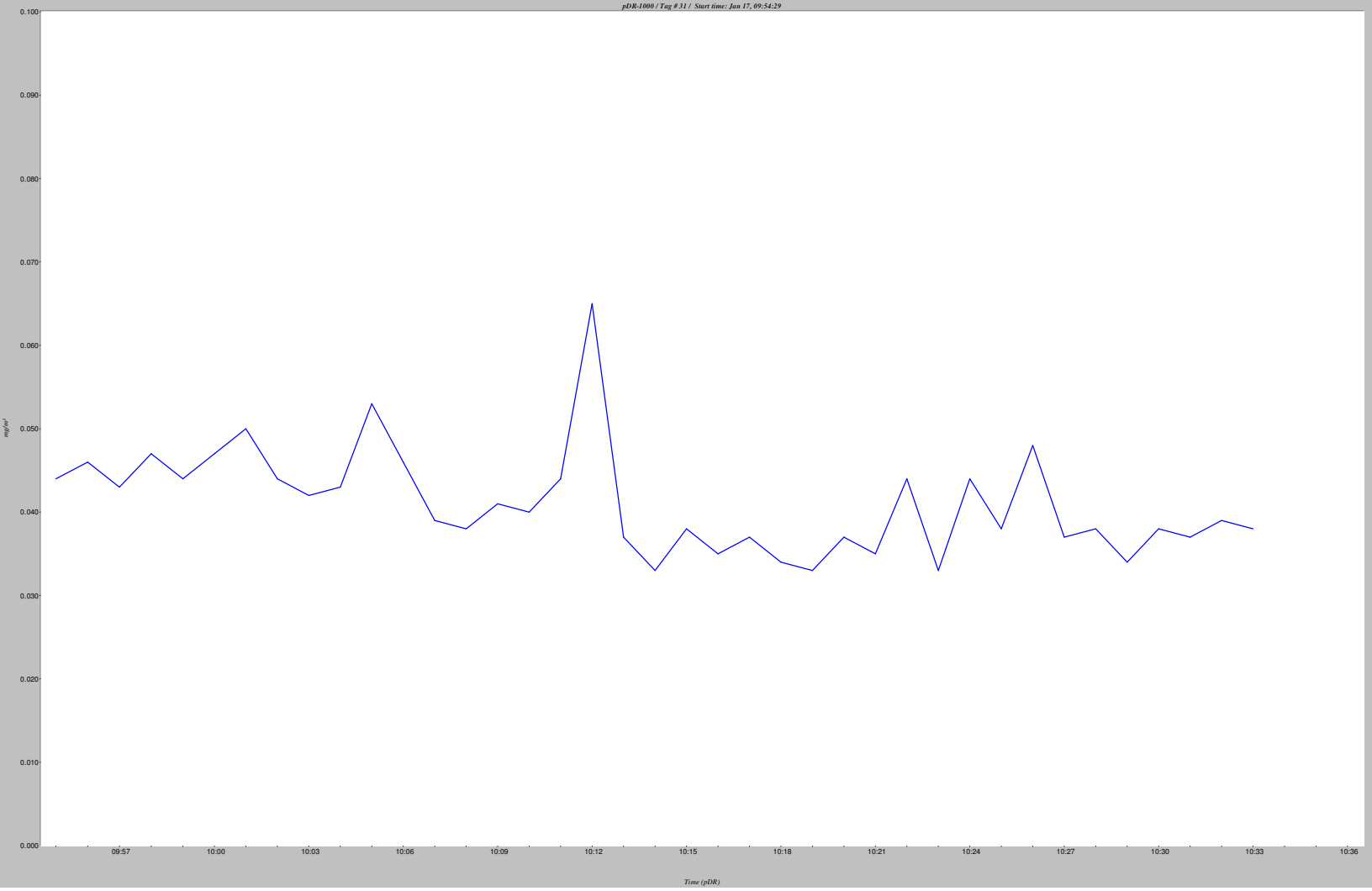
pDR-1000
Tag Number: 29
Number of logged points: 30
Start time and date: 08:48:32 17-Jan
Elapsed time: 00:30:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.203 mg/m³
Time at maximum: 08:58:13 Jan 17
Max STEL Concentration: 0.047 mg/m³
Time at max STEL: 09:04:02 Jan 17
Overall Avg Conc: 0.043 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	08:49:32	0.038
2	17 Jan	08:50:32	0.041
3	17 Jan	08:51:32	0.047
4	17 Jan	08:52:32	0.040
5	17 Jan	08:53:32	0.046
6	17 Jan	08:54:32	0.036
7	17 Jan	08:55:32	0.038
8	17 Jan	08:56:32	0.044
9	17 Jan	08:57:32	0.043
10	17 Jan	08:58:32	0.093
11	17 Jan	08:59:32	0.043
12	17 Jan	09:00:32	0.040
13	17 Jan	09:01:32	0.071
14	17 Jan	09:02:32	0.039
15	17 Jan	09:03:32	0.038
16	17 Jan	09:04:32	0.040
17	17 Jan	09:05:32	0.037
18	17 Jan	09:06:32	0.040
19	17 Jan	09:07:32	0.044
20	17 Jan	09:08:32	0.046
21	17 Jan	09:09:32	0.044
22	17 Jan	09:10:32	0.041
23	17 Jan	09:11:32	0.034
24	17 Jan	09:12:32	0.034
25	17 Jan	09:13:32	0.045
26	17 Jan	09:14:32	0.036
27	17 Jan	09:15:32	0.035
28	17 Jan	09:16:32	0.044
29	17 Jan	09:17:32	0.042
30	17 Jan	09:18:32	0.035


pDR-1000 / Tag # 30 / Start time: Jan 17, 09:19:45
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:21
09:24
09:27
09:30
09:33
09:36
09:39
09:42
09:45
09:48
09:51
09:54
Time (pDR)

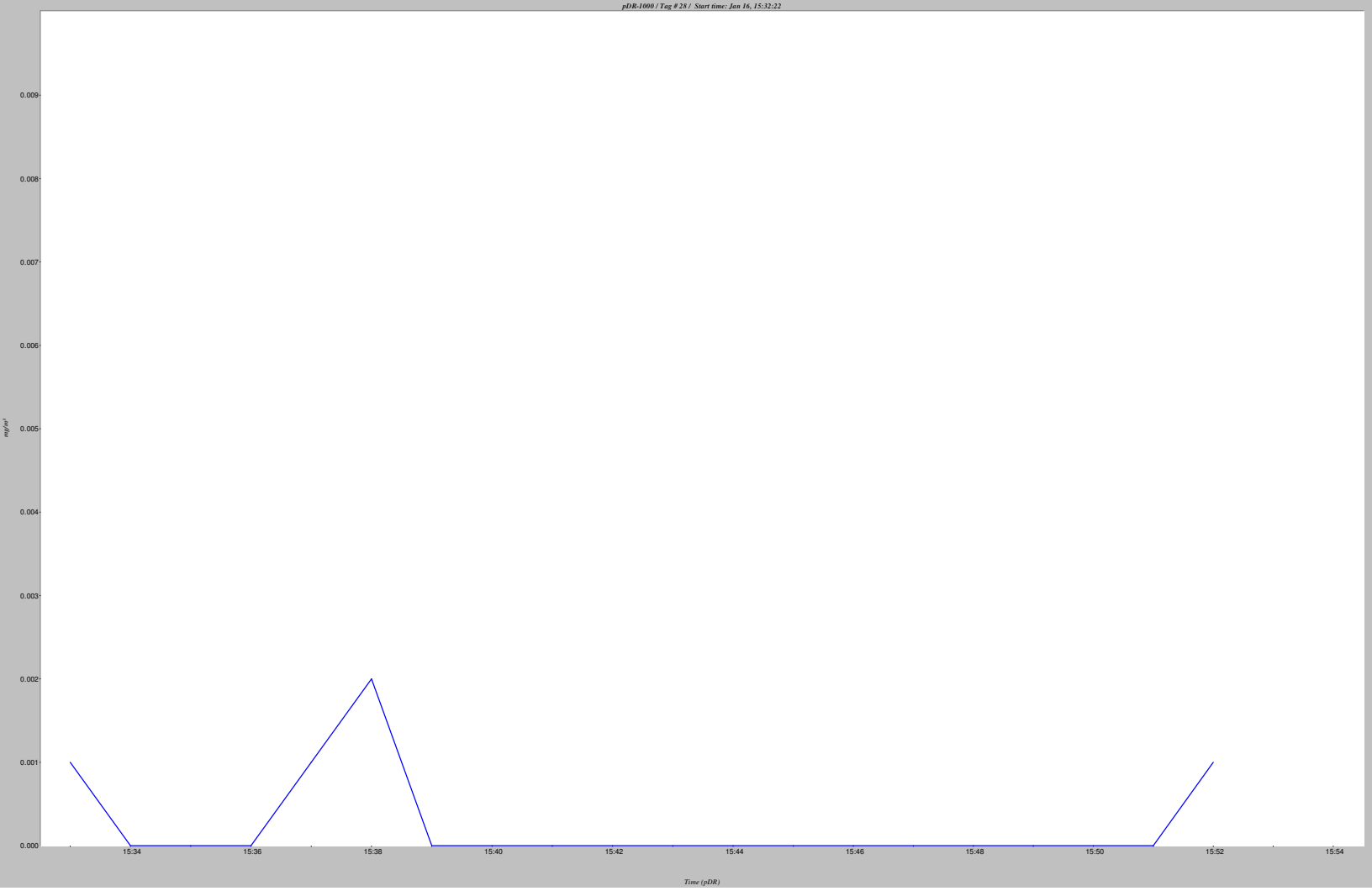
pDR-1000
Tag Number: 30
Number of logged points: 33
Start time and date: 09:19:45 17-Jan
Elapsed time: 00:33:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.075 mg/m³
Time at maximum: 09:23:52 Jan 17
Max STEL Concentration: 0.045 mg/m³
Time at max STEL: 09:38:15 Jan 17
Overall Avg Conc: 0.043 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	09:20:45	0.037
2	17 Jan	09:21:45	0.034
3	17 Jan	09:22:45	0.037
4	17 Jan	09:23:45	0.042
5	17 Jan	09:24:45	0.056
6	17 Jan	09:25:45	0.046
7	17 Jan	09:26:45	0.043
8	17 Jan	09:27:45	0.045
9	17 Jan	09:28:45	0.049
10	17 Jan	09:29:45	0.044
11	17 Jan	09:30:45	0.043
12	17 Jan	09:31:45	0.040
13	17 Jan	09:32:45	0.043
14	17 Jan	09:33:45	0.045
15	17 Jan	09:34:45	0.044
16	17 Jan	09:35:45	0.044
17	17 Jan	09:36:45	0.042
18	17 Jan	09:37:45	0.041
19	17 Jan	09:38:45	0.051
20	17 Jan	09:39:45	0.042
21	17 Jan	09:40:45	0.044
22	17 Jan	09:41:45	0.042
23	17 Jan	09:42:45	0.044
24	17 Jan	09:43:45	0.044
25	17 Jan	09:44:45	0.041
26	17 Jan	09:45:45	0.041
27	17 Jan	09:46:45	0.041
28	17 Jan	09:47:45	0.038
29	17 Jan	09:48:45	0.041
30	17 Jan	09:49:45	0.041
31	17 Jan	09:50:45	0.039
32	17 Jan	09:51:45	0.041
33	17 Jan	09:52:45	0.046


pDR-1000 / Tag # 31 / Start time: Jan 17, 09:54:29
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
09:57
10:00
10:03
10:06
10:09
10:12
10:15
10:18
10:21
10:24
10:27
10:30
10:33
10:36
Time (pDR)

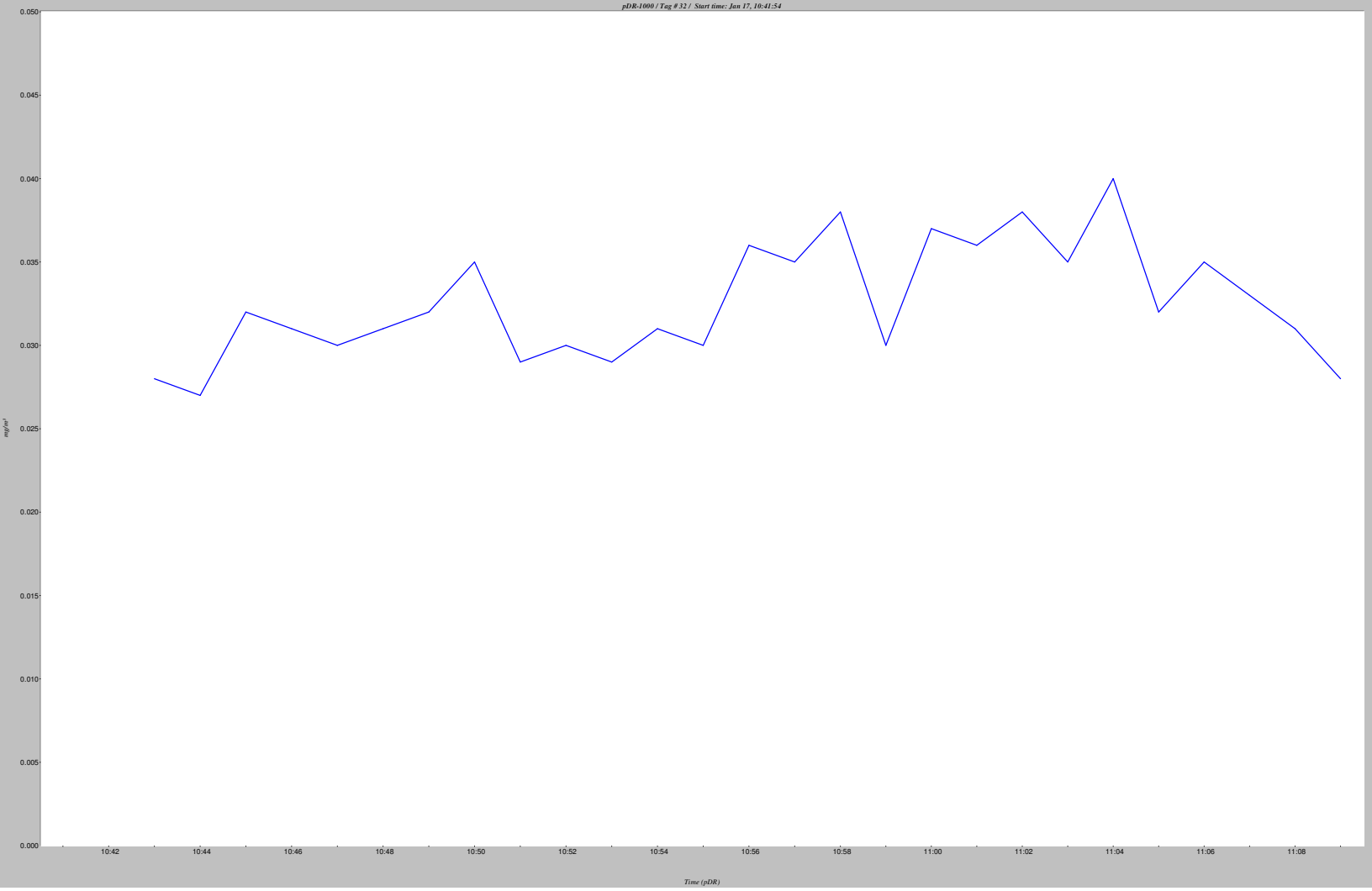
pDR-1000
Tag Number: 31
Number of logged points: 39
Start time and date: 09:54:29 17-Jan
Elapsed time: 00:39:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.147 mg/m³
Time at maximum: 10:11:51 Jan 17
Max STEL Concentration: 0.045 mg/m³
Time at max STEL: 10:11:59 Jan 17
Overall Avg Conc: 0.041 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	09:55:29	0.044
2	17 Jan	09:56:29	0.046
3	17 Jan	09:57:29	0.043
4	17 Jan	09:58:29	0.047
5	17 Jan	09:59:29	0.044
6	17 Jan	10:00:29	0.047
7	17 Jan	10:01:29	0.050
8	17 Jan	10:02:29	0.044
9	17 Jan	10:03:29	0.042
10	17 Jan	10:04:29	0.043
11	17 Jan	10:05:29	0.053
12	17 Jan	10:06:29	0.046
13	17 Jan	10:07:29	0.039
14	17 Jan	10:08:29	0.038
15	17 Jan	10:09:29	0.041
16	17 Jan	10:10:29	0.040
17	17 Jan	10:11:29	0.044
18	17 Jan	10:12:29	0.065
19	17 Jan	10:13:29	0.037
20	17 Jan	10:14:29	0.033
21	17 Jan	10:15:29	0.038
22	17 Jan	10:16:29	0.035
23	17 Jan	10:17:29	0.037
24	17 Jan	10:18:29	0.034
25	17 Jan	10:19:29	0.033
26	17 Jan	10:20:29	0.037
27	17 Jan	10:21:29	0.035
28	17 Jan	10:22:29	0.044
29	17 Jan	10:23:29	0.033
30	17 Jan	10:24:29	0.044
31	17 Jan	10:25:29	0.038
32	17 Jan	10:26:29	0.048
33	17 Jan	10:27:29	0.037
34	17 Jan	10:28:29	0.038
35	17 Jan	10:29:29	0.034
36	17 Jan	10:30:29	0.038
37	17 Jan	10:31:29	0.037
38	17 Jan	10:32:29	0.039
39	17 Jan	10:33:29	0.038


pDR-1000 / Tag # 28 / Start time: Jan 16, 15:32:22
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
mg/m³
15:34
15:36
15:38
15:40
15:42
15:44
15:46
15:48
15:50
15:52
15:54
Time (pDR)

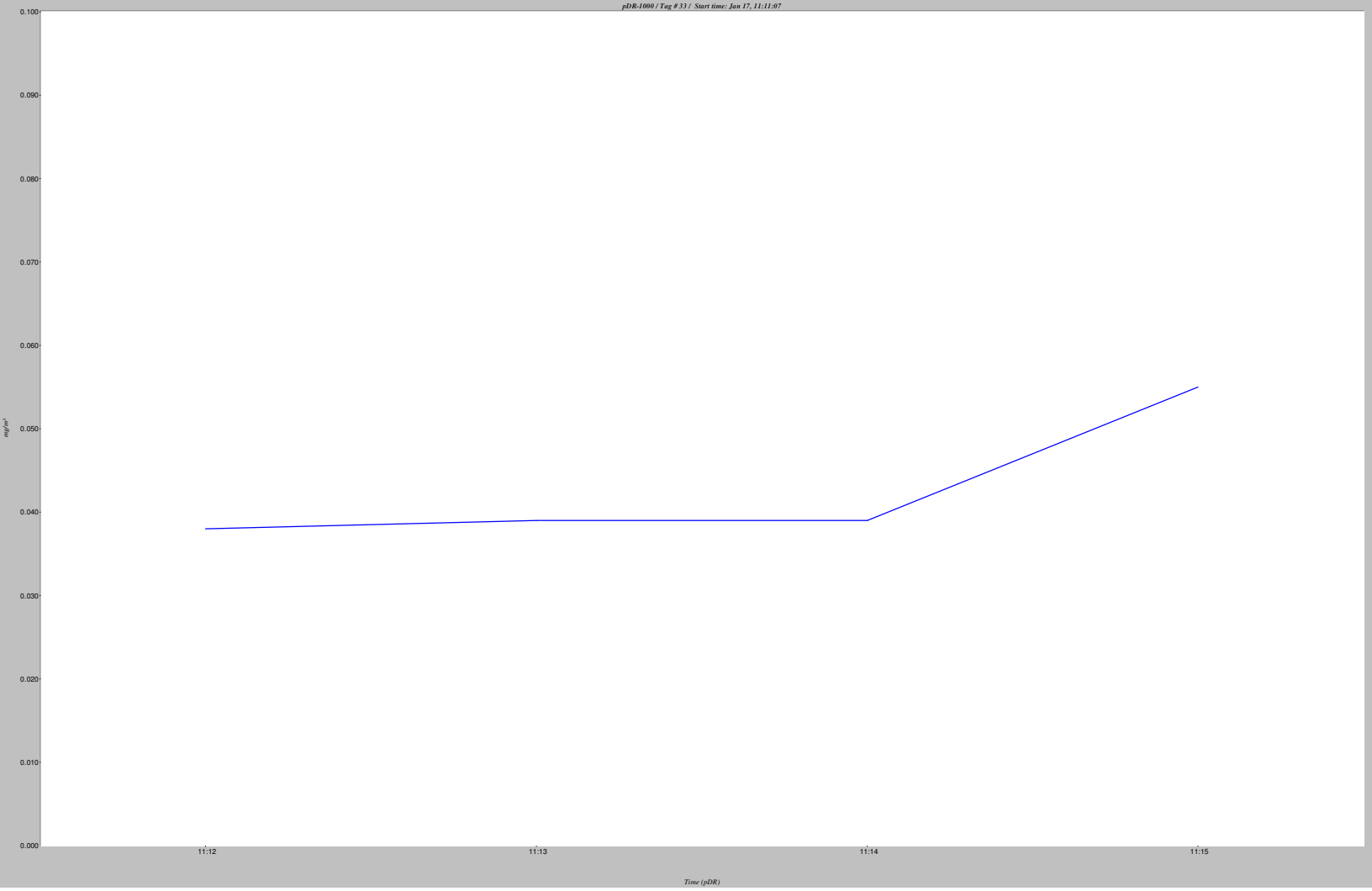
pDR-1000
Tag Number: 28
Number of logged points: 20
Start time and date: 15:32:22 16-Jan
Elapsed time: 00:20:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.013 mg/m³
Time at maximum: 15:52:33 Jan 16
Max STEL Concentration: 0.000 mg/m³
Time at max STEL: 15:32:22 Jan 16
Overall Avg Conc: 0.000 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	16 Jan	15:33:22	0.001
2	16 Jan	15:34:22	0.000
3	16 Jan	15:35:22	0.000
4	16 Jan	15:36:22	0.000
5	16 Jan	15:37:22	0.001
6	16 Jan	15:38:22	0.002
7	16 Jan	15:39:22	0.000
8	16 Jan	15:40:22	0.000
9	16 Jan	15:41:22	0.000
10	16 Jan	15:42:22	0.000
11	16 Jan	15:43:22	0.000
12	16 Jan	15:44:22	0.000
13	16 Jan	15:45:22	0.000
14	16 Jan	15:46:22	0.000
15	16 Jan	15:47:22	0.000
16	16 Jan	15:48:22	0.000
17	16 Jan	15:49:22	0.000
18	16 Jan	15:50:22	0.000
19	16 Jan	15:51:22	0.000
20	16 Jan	15:52:22	0.001


pDR-1000 / Tag # 32 / Start time: Jan 17, 10:41:54
0.050
0.045
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
mg/m³
10:42
10:44
10:46
10:48
10:50
10:52
10:54
10:56
10:58
11:00
11:02
11:04
11:06
11:08
Time (pDR)

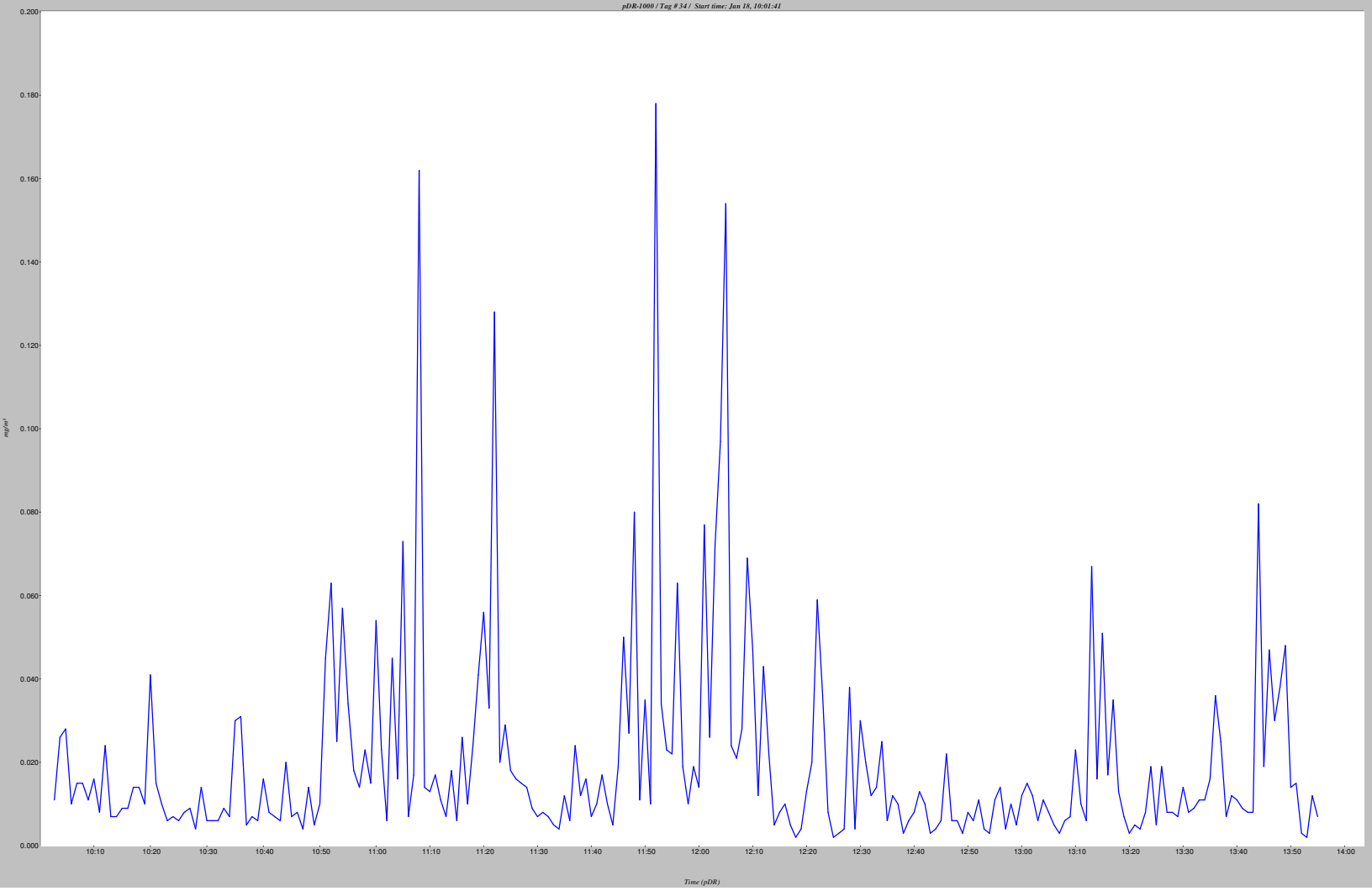
pDR-1000
Tag Number: 32
Number of logged points: 27
Start time and date: 10:41:54 17-Jan
Elapsed time: 00:27:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.055 mg/m³
Time at maximum: 11:03:20 Jan 17
Max STEL Concentration: 0.034 mg/m³
Time at max STEL: 11:03:24 Jan 17
Overall Avg Conc: 0.033 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	10:42:54	0.028
2	17 Jan	10:43:54	0.027
3	17 Jan	10:44:54	0.032
4	17 Jan	10:45:54	0.031
5	17 Jan	10:46:54	0.030
6	17 Jan	10:47:54	0.031
7	17 Jan	10:48:54	0.032
8	17 Jan	10:49:54	0.035
9	17 Jan	10:50:54	0.029
10	17 Jan	10:51:54	0.030
11	17 Jan	10:52:54	0.029
12	17 Jan	10:53:54	0.031
13	17 Jan	10:54:54	0.030
14	17 Jan	10:55:54	0.036
15	17 Jan	10:56:54	0.035
16	17 Jan	10:57:54	0.038
17	17 Jan	10:58:54	0.030
18	17 Jan	10:59:54	0.037
19	17 Jan	11:00:54	0.036
20	17 Jan	11:01:54	0.038
21	17 Jan	11:02:54	0.035
22	17 Jan	11:03:54	0.040
23	17 Jan	11:04:54	0.032
24	17 Jan	11:05:54	0.035
25	17 Jan	11:06:54	0.033
26	17 Jan	11:07:54	0.031
27	17 Jan	11:08:54	0.028


pDR-1000 / Tag # 33 / Start time: Jan 17, 11:11:07
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
11:12
11:13
11:14
11:15
Time (pDR)

pDR-1000
Tag Number: 33
Number of logged points: 4
Start time and date: 11:11:07 17-Jan
Elapsed time: 00:04:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.119 mg/m³
Time at maximum: 11:14:26 Jan 17
Max STEL Concentration: 0.011 mg/m³
Time at max STEL: 11:15:07 Jan 17
Overall Avg Conc: 0.042 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	17 Jan	11:12:07	0.038
2	17 Jan	11:13:07	0.039
3	17 Jan	11:14:07	0.039
4	17 Jan	11:15:07	0.055


pDR-1000 / Tag # 34 / Start time: Jan 18, 10:01:41
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
10:10
10:20
10:30
10:40
10:50
11:00
11:10
11:20
11:30
11:40
11:50
12:00
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
13:30
13:40
13:50
14:00
Time (pDR)

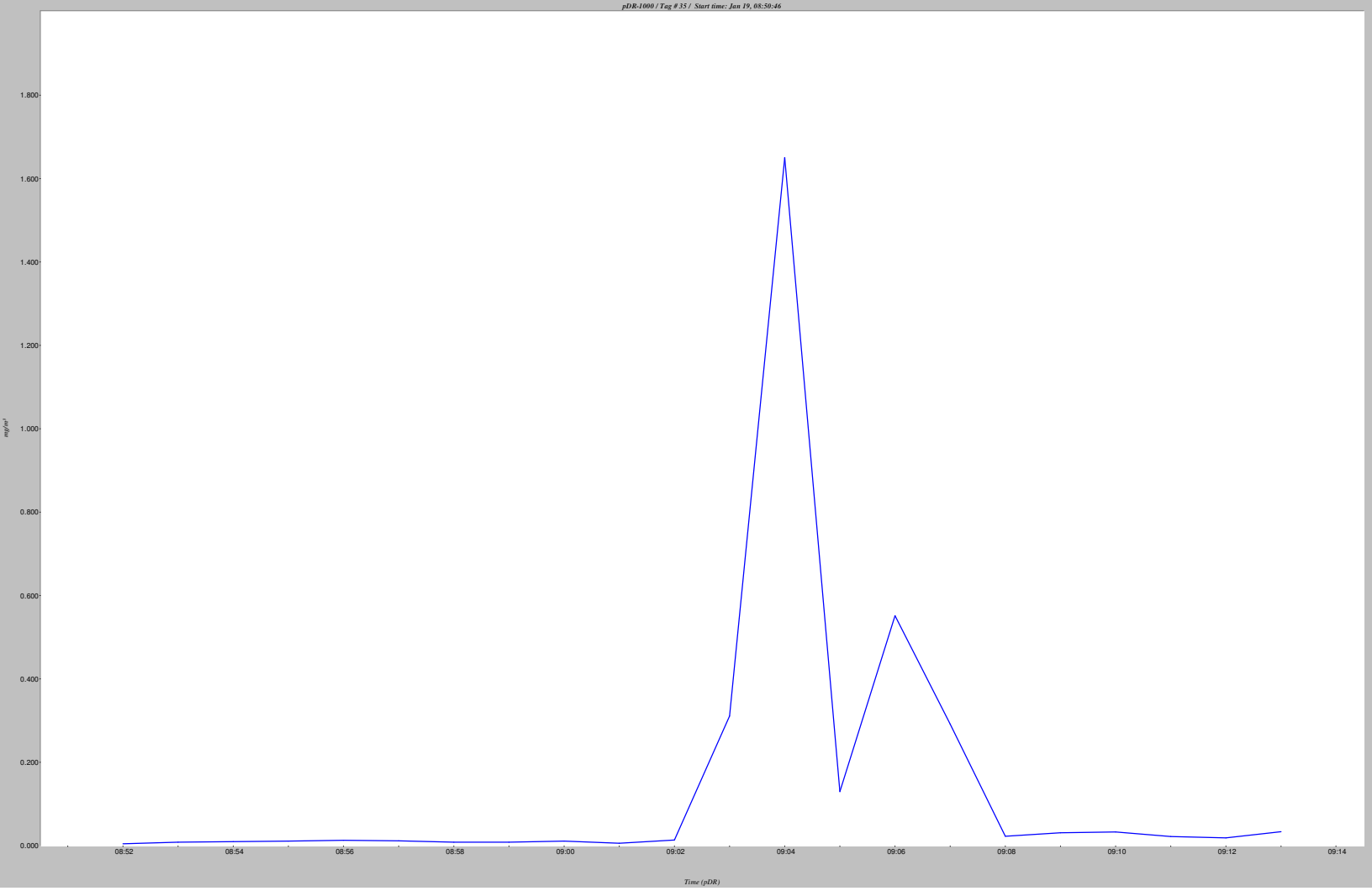
pDR-1000
Tag Number: 34
Number of logged points: 233
Start time and date: 10:01:41 18-Jan
Elapsed time: 03:53:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.815 mg/m³
Time at maximum: 11:07:06 Jan 18
Max STEL Concentration: 0.056 mg/m³
Time at max STEL: 12:05:11 Jan 18
Overall Avg Conc: 0.020 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	18 Jan	10:02:41	0.011
2	18 Jan	10:03:41	0.026
3	18 Jan	10:04:41	0.028
4	18 Jan	10:05:41	0.010
5	18 Jan	10:06:41	0.015
6	18 Jan	10:07:41	0.015
7	18 Jan	10:08:41	0.011
8	18 Jan	10:09:41	0.016
9	18 Jan	10:10:41	0.008
10	18 Jan	10:11:41	0.024
11	18 Jan	10:12:41	0.007
12	18 Jan	10:13:41	0.007
13	18 Jan	10:14:41	0.009
14	18 Jan	10:15:41	0.009
15	18 Jan	10:16:41	0.014
16	18 Jan	10:17:41	0.014
17	18 Jan	10:18:41	0.010
18	18 Jan	10:19:41	0.041
19	18 Jan	10:20:41	0.015
20	18 Jan	10:21:41	0.010
21	18 Jan	10:22:41	0.006
22	18 Jan	10:23:41	0.007
23	18 Jan	10:24:41	0.006
24	18 Jan	10:25:41	0.008
25	18 Jan	10:26:41	0.009
26	18 Jan	10:27:41	0.004
27	18 Jan	10:28:41	0.014
28	18 Jan	10:29:41	0.006
29	18 Jan	10:30:41	0.006
30	18 Jan	10:31:41	0.006
31	18 Jan	10:32:41	0.009
32	18 Jan	10:33:41	0.007
33	18 Jan	10:34:41	0.030
34	18 Jan	10:35:41	0.031
35	18 Jan	10:36:41	0.005
36	18 Jan	10:37:41	0.007
37	18 Jan	10:38:41	0.006
38	18 Jan	10:39:41	0.016
39	18 Jan	10:40:41	0.008
40	18 Jan	10:41:41	0.007
41	18 Jan	10:42:41	0.006
42	18 Jan	10:43:41	0.020
43	18 Jan	10:44:41	0.007
44	18 Jan	10:45:41	0.008
45	18 Jan	10:46:41	0.004
46	18 Jan	10:47:41	0.014
47	18 Jan	10:48:41	0.005
48	18 Jan	10:49:41	0.010
49	18 Jan	10:50:41	0.045
50	18 Jan	10:51:41	0.063
51	18 Jan	10:52:41	0.025
52	18 Jan	10:53:41	0.057
53	18 Jan	10:54:41	0.034
54	18 Jan	10:55:41	0.018
55	18 Jan	10:56:41	0.014
56	18 Jan	10:57:41	0.023
57	18 Jan	10:58:41	0.015

58,	18 Jan,	10:59:41,	0.054
59,	18 Jan,	11:00:41,	0.023
60,	18 Jan,	11:01:41,	0.006
61,	18 Jan,	11:02:41,	0.045
62,	18 Jan,	11:03:41,	0.016
63,	18 Jan,	11:04:41,	0.073
64,	18 Jan,	11:05:41,	0.007
65,	18 Jan,	11:06:41,	0.017
66,	18 Jan,	11:07:41,	0.162
67,	18 Jan,	11:08:41,	0.014
68,	18 Jan,	11:09:41,	0.013
69,	18 Jan,	11:10:41,	0.017
70,	18 Jan,	11:11:41,	0.011
71,	18 Jan,	11:12:41,	0.007
72,	18 Jan,	11:13:41,	0.018
73,	18 Jan,	11:14:41,	0.006
74,	18 Jan,	11:15:41,	0.026
75,	18 Jan,	11:16:41,	0.010
76,	18 Jan,	11:17:41,	0.024
77,	18 Jan,	11:18:41,	0.041
78,	18 Jan,	11:19:41,	0.056
79,	18 Jan,	11:20:41,	0.033
80,	18 Jan,	11:21:41,	0.128
81,	18 Jan,	11:22:41,	0.020
82,	18 Jan,	11:23:41,	0.029
83,	18 Jan,	11:24:41,	0.018
84,	18 Jan,	11:25:41,	0.016
85,	18 Jan,	11:26:41,	0.015
86,	18 Jan,	11:27:41,	0.014
87,	18 Jan,	11:28:41,	0.009
88,	18 Jan,	11:29:41,	0.007
89,	18 Jan,	11:30:41,	0.008
90,	18 Jan,	11:31:41,	0.007
91,	18 Jan,	11:32:41,	0.005
92,	18 Jan,	11:33:41,	0.004
93,	18 Jan,	11:34:41,	0.012
94,	18 Jan,	11:35:41,	0.006
95,	18 Jan,	11:36:41,	0.024
96,	18 Jan,	11:37:41,	0.012
97,	18 Jan,	11:38:41,	0.016
98,	18 Jan,	11:39:41,	0.007
99,	18 Jan,	11:40:41,	0.010
100,	18 Jan,	11:41:41,	0.017
101,	18 Jan,	11:42:41,	0.010
102,	18 Jan,	11:43:41,	0.005
103,	18 Jan,	11:44:41,	0.019
104,	18 Jan,	11:45:41,	0.050
105,	18 Jan,	11:46:41,	0.027
106,	18 Jan,	11:47:41,	0.080
107,	18 Jan,	11:48:41,	0.011
108,	18 Jan,	11:49:41,	0.035
109,	18 Jan,	11:50:41,	0.010
110,	18 Jan,	11:51:41,	0.178
111,	18 Jan,	11:52:41,	0.034
112,	18 Jan,	11:53:41,	0.023
113,	18 Jan,	11:54:41,	0.022
114,	18 Jan,	11:55:41,	0.063
115,	18 Jan,	11:56:41,	0.019
116,	18 Jan,	11:57:41,	0.010
117,	18 Jan,	11:58:41,	0.019
118,	18 Jan,	11:59:41,	0.014
119,	18 Jan,	12:00:41,	0.077
120,	18 Jan,	12:01:41,	0.026
121,	18 Jan,	12:02:41,	0.072
122,	18 Jan,	12:03:41,	0.097
123,	18 Jan,	12:04:41,	0.154
124,	18 Jan,	12:05:41,	0.024
125,	18 Jan,	12:06:41,	0.021
126,	18 Jan,	12:07:41,	0.028
127,	18 Jan,	12:08:41,	0.069
128,	18 Jan,	12:09:41,	0.047

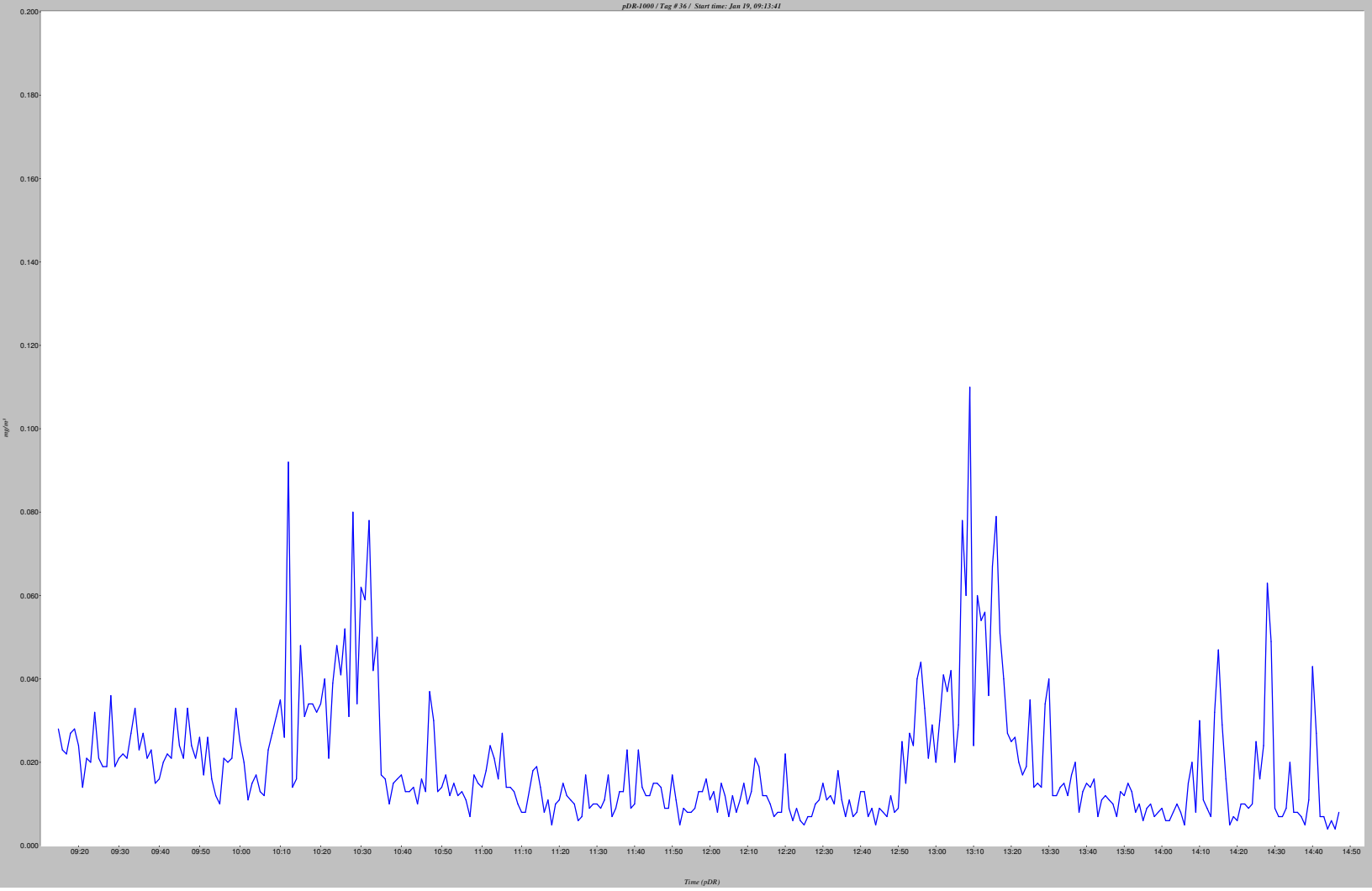
129, 18 Jan, 12:10:41, 0.012
130, 18 Jan, 12:11:41, 0.043
131, 18 Jan, 12:12:41, 0.022
132, 18 Jan, 12:13:41, 0.005
133, 18 Jan, 12:14:41, 0.008
134, 18 Jan, 12:15:41, 0.010
135, 18 Jan, 12:16:41, 0.005
136, 18 Jan, 12:17:41, 0.002
137, 18 Jan, 12:18:41, 0.004
138, 18 Jan, 12:19:41, 0.013
139, 18 Jan, 12:20:41, 0.020
140, 18 Jan, 12:21:41, 0.059
141, 18 Jan, 12:22:41, 0.036
142, 18 Jan, 12:23:41, 0.008
143, 18 Jan, 12:24:41, 0.002
144, 18 Jan, 12:25:41, 0.003
145, 18 Jan, 12:26:41, 0.004
146, 18 Jan, 12:27:41, 0.038
147, 18 Jan, 12:28:41, 0.004
148, 18 Jan, 12:29:41, 0.030
149, 18 Jan, 12:30:41, 0.020
150, 18 Jan, 12:31:41, 0.012
151, 18 Jan, 12:32:41, 0.014
152, 18 Jan, 12:33:41, 0.025
153, 18 Jan, 12:34:41, 0.006
154, 18 Jan, 12:35:41, 0.012
155, 18 Jan, 12:36:41, 0.010
156, 18 Jan, 12:37:41, 0.003
157, 18 Jan, 12:38:41, 0.006
158, 18 Jan, 12:39:41, 0.008
159, 18 Jan, 12:40:41, 0.013
160, 18 Jan, 12:41:41, 0.010
161, 18 Jan, 12:42:41, 0.003
162, 18 Jan, 12:43:41, 0.004
163, 18 Jan, 12:44:41, 0.006
164, 18 Jan, 12:45:41, 0.022
165, 18 Jan, 12:46:41, 0.006
166, 18 Jan, 12:47:41, 0.006
167, 18 Jan, 12:48:41, 0.003
168, 18 Jan, 12:49:41, 0.008
169, 18 Jan, 12:50:41, 0.006
170, 18 Jan, 12:51:41, 0.011
171, 18 Jan, 12:52:41, 0.004
172, 18 Jan, 12:53:41, 0.003
173, 18 Jan, 12:54:41, 0.011
174, 18 Jan, 12:55:41, 0.014
175, 18 Jan, 12:56:41, 0.004
176, 18 Jan, 12:57:41, 0.010
177, 18 Jan, 12:58:41, 0.005
178, 18 Jan, 12:59:41, 0.012
179, 18 Jan, 13:00:41, 0.015
180, 18 Jan, 13:01:41, 0.012
181, 18 Jan, 13:02:41, 0.006
182, 18 Jan, 13:03:41, 0.011
183, 18 Jan, 13:04:41, 0.008
184, 18 Jan, 13:05:41, 0.005
185, 18 Jan, 13:06:41, 0.003
186, 18 Jan, 13:07:41, 0.006
187, 18 Jan, 13:08:41, 0.007
188, 18 Jan, 13:09:41, 0.023
189, 18 Jan, 13:10:41, 0.010
190, 18 Jan, 13:11:41, 0.006
191, 18 Jan, 13:12:41, 0.067
192, 18 Jan, 13:13:41, 0.016
193, 18 Jan, 13:14:41, 0.051
194, 18 Jan, 13:15:41, 0.017
195, 18 Jan, 13:16:41, 0.035
196, 18 Jan, 13:17:41, 0.013
197, 18 Jan, 13:18:41, 0.007
198, 18 Jan, 13:19:41, 0.003
199, 18 Jan, 13:20:41, 0.005

200, 18 Jan, 13:21:41, 0.004
201, 18 Jan, 13:22:41, 0.008
202, 18 Jan, 13:23:41, 0.019
203, 18 Jan, 13:24:41, 0.005
204, 18 Jan, 13:25:41, 0.019
205, 18 Jan, 13:26:41, 0.008
206, 18 Jan, 13:27:41, 0.008
207, 18 Jan, 13:28:41, 0.007
208, 18 Jan, 13:29:41, 0.014
209, 18 Jan, 13:30:41, 0.008
210, 18 Jan, 13:31:41, 0.009
211, 18 Jan, 13:32:41, 0.011
212, 18 Jan, 13:33:41, 0.011
213, 18 Jan, 13:34:41, 0.016
214, 18 Jan, 13:35:41, 0.036
215, 18 Jan, 13:36:41, 0.025
216, 18 Jan, 13:37:41, 0.007
217, 18 Jan, 13:38:41, 0.012
218, 18 Jan, 13:39:41, 0.011
219, 18 Jan, 13:40:41, 0.009
220, 18 Jan, 13:41:41, 0.008
221, 18 Jan, 13:42:41, 0.008
222, 18 Jan, 13:43:41, 0.082
223, 18 Jan, 13:44:41, 0.019
224, 18 Jan, 13:45:41, 0.047
225, 18 Jan, 13:46:41, 0.030
226, 18 Jan, 13:47:41, 0.038
227, 18 Jan, 13:48:41, 0.048
228, 18 Jan, 13:49:41, 0.014
229, 18 Jan, 13:50:41, 0.015
230, 18 Jan, 13:51:41, 0.003
231, 18 Jan, 13:52:41, 0.002
232, 18 Jan, 13:53:41, 0.012
233, 18 Jan, 13:54:41, 0.007


pDR-1000 / Tag # 35 / Start time: Jan 19, 08:50:46
1.800
1.600
1.400
1.200
1.000
0.800
0.600
0.400
0.200
0.000
mg/m³
08:52
08:54
08:56
08:58
09:00
09:02
09:04
09:06
09:08
09:10
09:12
09:14
Time (pDR)

pDR-1000
Tag Number: 35
Number of logged points: 22
Start time and date: 08:50:46 19-Jan
Elapsed time: 00:22:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 4.880 mg/m³
Time at maximum: 09:03:22 Jan 19
Max STEL Concentration: 0.210 mg/m³
Time at max STEL: 09:13:16 Jan 19
Overall Avg Conc: 0.142 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	19 Jan	08:51:46	0.005
2	19 Jan	08:52:46	0.009
3	19 Jan	08:53:46	0.010
4	19 Jan	08:54:46	0.011
5	19 Jan	08:55:46	0.013
6	19 Jan	08:56:46	0.012
7	19 Jan	08:57:46	0.009
8	19 Jan	08:58:46	0.009
9	19 Jan	08:59:46	0.011
10	19 Jan	09:00:46	0.006
11	19 Jan	09:01:46	0.014
12	19 Jan	09:02:46	0.311
13	19 Jan	09:03:46	1.650
14	19 Jan	09:04:46	0.130
15	19 Jan	09:05:46	0.552
16	19 Jan	09:06:46	0.292
17	19 Jan	09:07:46	0.023
18	19 Jan	09:08:46	0.031
19	19 Jan	09:09:46	0.033
20	19 Jan	09:10:46	0.022
21	19 Jan	09:11:46	0.019
22	19 Jan	09:12:46	0.034


pDR-1000 / Tag # 36 / Start time: Jan 19, 09:13:41
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
09:20
09:30
09:40
09:50
10:00
10:10
10:20
10:30
10:40
10:50
11:00
11:10
11:20
11:30
11:40
11:50
12:00
12:10
12:20
12:30
12:40
12:50
13:00
13:10
13:20
13:30
13:40
13:50
14:00
14:10
14:20
14:30
14:40
14:50
Time (pDR)

pDR-1000
Tag Number: 36
Number of logged points: 333
Start time and date: 09:13:41 19-Jan
Elapsed time: 05:33:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.467 mg/m³
Time at maximum: 13:08:26 Jan 19
Max STEL Concentration: 0.054 mg/m³
Time at max STEL: 13:16:42 Jan 19
Overall Avg Conc: 0.019 mg/m³
Logged Data:

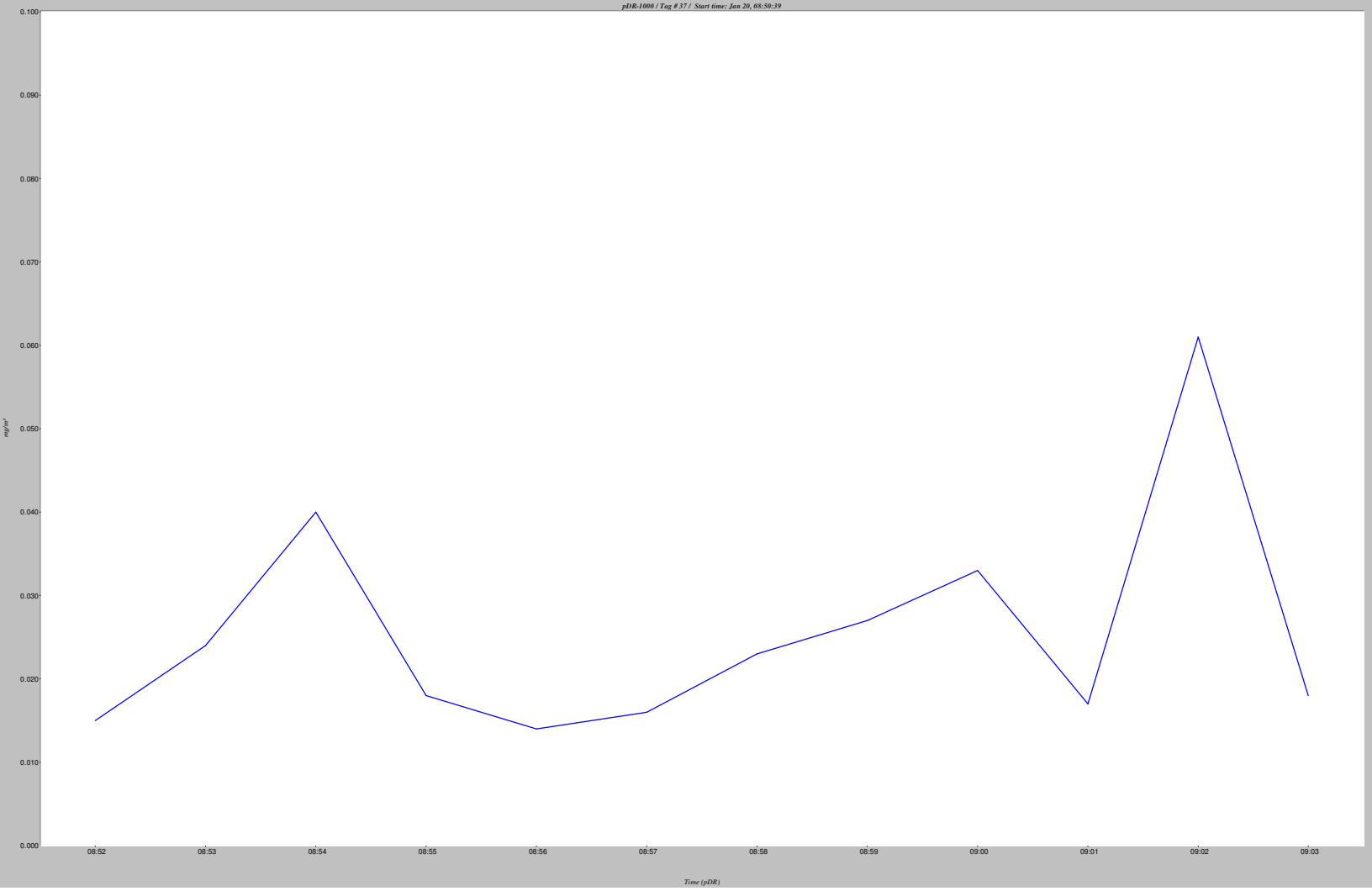
Point	Date	Time	Avg.(mg/m³)
1	19 Jan	09:14:41	0.028
2	19 Jan	09:15:41	0.023
3	19 Jan	09:16:41	0.022
4	19 Jan	09:17:41	0.027
5	19 Jan	09:18:41	0.028
6	19 Jan	09:19:41	0.024
7	19 Jan	09:20:41	0.014
8	19 Jan	09:21:41	0.021
9	19 Jan	09:22:41	0.020
10	19 Jan	09:23:41	0.032
11	19 Jan	09:24:41	0.021
12	19 Jan	09:25:41	0.019
13	19 Jan	09:26:41	0.019
14	19 Jan	09:27:41	0.036
15	19 Jan	09:28:41	0.019
16	19 Jan	09:29:41	0.021
17	19 Jan	09:30:41	0.022
18	19 Jan	09:31:41	0.021
19	19 Jan	09:32:41	0.027
20	19 Jan	09:33:41	0.033
21	19 Jan	09:34:41	0.023
22	19 Jan	09:35:41	0.027
23	19 Jan	09:36:41	0.021
24	19 Jan	09:37:41	0.023
25	19 Jan	09:38:41	0.015
26	19 Jan	09:39:41	0.016
27	19 Jan	09:40:41	0.020
28	19 Jan	09:41:41	0.022
29	19 Jan	09:42:41	0.021
30	19 Jan	09:43:41	0.033
31	19 Jan	09:44:41	0.024
32	19 Jan	09:45:41	0.021
33	19 Jan	09:46:41	0.033
34	19 Jan	09:47:41	0.024
35	19 Jan	09:48:41	0.021
36	19 Jan	09:49:41	0.026
37	19 Jan	09:50:41	0.017
38	19 Jan	09:51:41	0.026
39	19 Jan	09:52:41	0.016
40	19 Jan	09:53:41	0.012
41	19 Jan	09:54:41	0.010
42	19 Jan	09:55:41	0.021
43	19 Jan	09:56:41	0.020
44	19 Jan	09:57:41	0.021
45	19 Jan	09:58:41	0.033
46	19 Jan	09:59:41	0.025
47	19 Jan	10:00:41	0.020
48	19 Jan	10:01:41	0.011
49	19 Jan	10:02:41	0.015
50	19 Jan	10:03:41	0.017
51	19 Jan	10:04:41	0.013
52	19 Jan	10:05:41	0.012
53	19 Jan	10:06:41	0.023
54	19 Jan	10:07:41	0.027
55	19 Jan	10:08:41	0.031
56	19 Jan	10:09:41	0.035
57	19 Jan	10:10:41	0.026

58,	19	Jan,	10:11:41,	0.092
59,	19	Jan,	10:12:41,	0.014
60,	19	Jan,	10:13:41,	0.016
61,	19	Jan,	10:14:41,	0.048
62,	19	Jan,	10:15:41,	0.031
63,	19	Jan,	10:16:41,	0.034
64,	19	Jan,	10:17:41,	0.034
65,	19	Jan,	10:18:41,	0.032
66,	19	Jan,	10:19:41,	0.034
67,	19	Jan,	10:20:41,	0.040
68,	19	Jan,	10:21:41,	0.021
69,	19	Jan,	10:22:41,	0.039
70,	19	Jan,	10:23:41,	0.048
71,	19	Jan,	10:24:41,	0.041
72,	19	Jan,	10:25:41,	0.052
73,	19	Jan,	10:26:41,	0.031
74,	19	Jan,	10:27:41,	0.080
75,	19	Jan,	10:28:41,	0.034
76,	19	Jan,	10:29:41,	0.062
77,	19	Jan,	10:30:41,	0.059
78,	19	Jan,	10:31:41,	0.078
79,	19	Jan,	10:32:41,	0.042
80,	19	Jan,	10:33:41,	0.050
81,	19	Jan,	10:34:41,	0.017
82,	19	Jan,	10:35:41,	0.016
83,	19	Jan,	10:36:41,	0.010
84,	19	Jan,	10:37:41,	0.015
85,	19	Jan,	10:38:41,	0.016
86,	19	Jan,	10:39:41,	0.017
87,	19	Jan,	10:40:41,	0.013
88,	19	Jan,	10:41:41,	0.013
89,	19	Jan,	10:42:41,	0.014
90,	19	Jan,	10:43:41,	0.010
91,	19	Jan,	10:44:41,	0.016
92,	19	Jan,	10:45:41,	0.013
93,	19	Jan,	10:46:41,	0.037
94,	19	Jan,	10:47:41,	0.030
95,	19	Jan,	10:48:41,	0.013
96,	19	Jan,	10:49:41,	0.014
97,	19	Jan,	10:50:41,	0.017
98,	19	Jan,	10:51:41,	0.012
99,	19	Jan,	10:52:41,	0.015
100,	19	Jan,	10:53:41,	0.012
101,	19	Jan,	10:54:41,	0.013
102,	19	Jan,	10:55:41,	0.011
103,	19	Jan,	10:56:41,	0.007
104,	19	Jan,	10:57:41,	0.017
105,	19	Jan,	10:58:41,	0.015
106,	19	Jan,	10:59:41,	0.014
107,	19	Jan,	11:00:41,	0.018
108,	19	Jan,	11:01:41,	0.024
109,	19	Jan,	11:02:41,	0.021
110,	19	Jan,	11:03:41,	0.016
111,	19	Jan,	11:04:41,	0.027
112,	19	Jan,	11:05:41,	0.014
113,	19	Jan,	11:06:41,	0.014
114,	19	Jan,	11:07:41,	0.013
115,	19	Jan,	11:08:41,	0.010
116,	19	Jan,	11:09:41,	0.008
117,	19	Jan,	11:10:41,	0.008
118,	19	Jan,	11:11:41,	0.013
119,	19	Jan,	11:12:41,	0.018
120,	19	Jan,	11:13:41,	0.019
121,	19	Jan,	11:14:41,	0.014
122,	19	Jan,	11:15:41,	0.008
123,	19	Jan,	11:16:41,	0.011
124,	19	Jan,	11:17:41,	0.005
125,	19	Jan,	11:18:41,	0.010
126,	19	Jan,	11:19:41,	0.011
127,	19	Jan,	11:20:41,	0.015
128,	19	Jan,	11:21:41,	0.012

129, 19 Jan, 11:22:41, 0.011
130, 19 Jan, 11:23:41, 0.010
131, 19 Jan, 11:24:41, 0.006
132, 19 Jan, 11:25:41, 0.007
133, 19 Jan, 11:26:41, 0.017
134, 19 Jan, 11:27:41, 0.009
135, 19 Jan, 11:28:41, 0.010
136, 19 Jan, 11:29:41, 0.010
137, 19 Jan, 11:30:41, 0.009
138, 19 Jan, 11:31:41, 0.011
139, 19 Jan, 11:32:41, 0.017
140, 19 Jan, 11:33:41, 0.007
141, 19 Jan, 11:34:41, 0.009
142, 19 Jan, 11:35:41, 0.013
143, 19 Jan, 11:36:41, 0.013
144, 19 Jan, 11:37:41, 0.023
145, 19 Jan, 11:38:41, 0.009
146, 19 Jan, 11:39:41, 0.010
147, 19 Jan, 11:40:41, 0.023
148, 19 Jan, 11:41:41, 0.014
149, 19 Jan, 11:42:41, 0.012
150, 19 Jan, 11:43:41, 0.012
151, 19 Jan, 11:44:41, 0.015
152, 19 Jan, 11:45:41, 0.015
153, 19 Jan, 11:46:41, 0.014
154, 19 Jan, 11:47:41, 0.009
155, 19 Jan, 11:48:41, 0.009
156, 19 Jan, 11:49:41, 0.017
157, 19 Jan, 11:50:41, 0.011
158, 19 Jan, 11:51:41, 0.005
159, 19 Jan, 11:52:41, 0.009
160, 19 Jan, 11:53:41, 0.008
161, 19 Jan, 11:54:41, 0.008
162, 19 Jan, 11:55:41, 0.009
163, 19 Jan, 11:56:41, 0.013
164, 19 Jan, 11:57:41, 0.013
165, 19 Jan, 11:58:41, 0.016
166, 19 Jan, 11:59:41, 0.011
167, 19 Jan, 12:00:41, 0.013
168, 19 Jan, 12:01:41, 0.008
169, 19 Jan, 12:02:41, 0.015
170, 19 Jan, 12:03:41, 0.012
171, 19 Jan, 12:04:41, 0.007
172, 19 Jan, 12:05:41, 0.012
173, 19 Jan, 12:06:41, 0.008
174, 19 Jan, 12:07:41, 0.011
175, 19 Jan, 12:08:41, 0.015
176, 19 Jan, 12:09:41, 0.010
177, 19 Jan, 12:10:41, 0.013
178, 19 Jan, 12:11:41, 0.021
179, 19 Jan, 12:12:41, 0.019
180, 19 Jan, 12:13:41, 0.012
181, 19 Jan, 12:14:41, 0.012
182, 19 Jan, 12:15:41, 0.010
183, 19 Jan, 12:16:41, 0.007
184, 19 Jan, 12:17:41, 0.008
185, 19 Jan, 12:18:41, 0.008
186, 19 Jan, 12:19:41, 0.022
187, 19 Jan, 12:20:41, 0.009
188, 19 Jan, 12:21:41, 0.006
189, 19 Jan, 12:22:41, 0.009
190, 19 Jan, 12:23:41, 0.006
191, 19 Jan, 12:24:41, 0.005
192, 19 Jan, 12:25:41, 0.007
193, 19 Jan, 12:26:41, 0.007
194, 19 Jan, 12:27:41, 0.010
195, 19 Jan, 12:28:41, 0.011
196, 19 Jan, 12:29:41, 0.015
197, 19 Jan, 12:30:41, 0.011
198, 19 Jan, 12:31:41, 0.012
199, 19 Jan, 12:32:41, 0.010

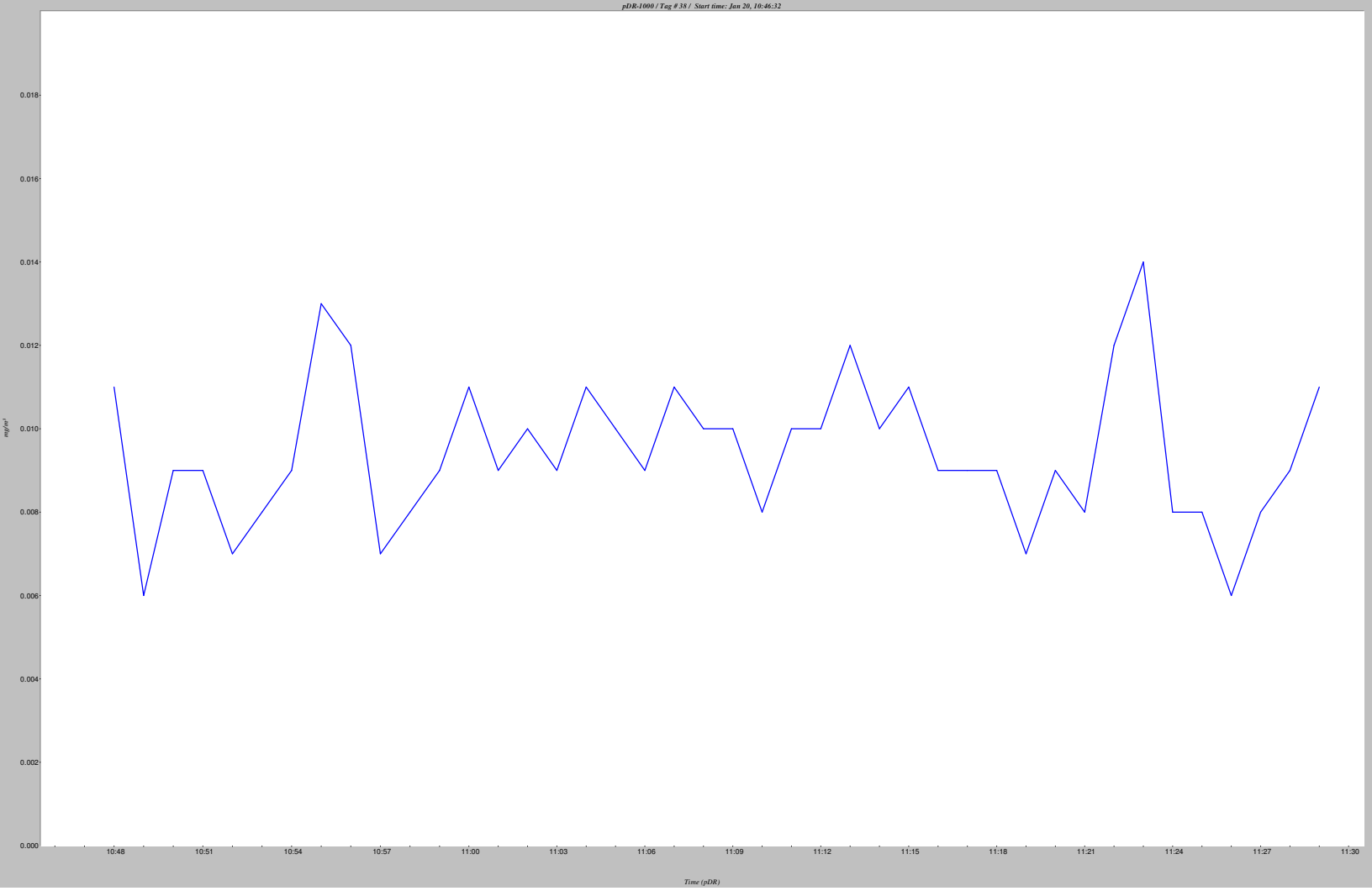
200, 19 Jan, 12:33:41, 0.018
201, 19 Jan, 12:34:41, 0.011
202, 19 Jan, 12:35:41, 0.007
203, 19 Jan, 12:36:41, 0.011
204, 19 Jan, 12:37:41, 0.007
205, 19 Jan, 12:38:41, 0.008
206, 19 Jan, 12:39:41, 0.013
207, 19 Jan, 12:40:41, 0.013
208, 19 Jan, 12:41:41, 0.007
209, 19 Jan, 12:42:41, 0.009
210, 19 Jan, 12:43:41, 0.005
211, 19 Jan, 12:44:41, 0.009
212, 19 Jan, 12:45:41, 0.008
213, 19 Jan, 12:46:41, 0.007
214, 19 Jan, 12:47:41, 0.012
215, 19 Jan, 12:48:41, 0.008
216, 19 Jan, 12:49:41, 0.009
217, 19 Jan, 12:50:41, 0.025
218, 19 Jan, 12:51:41, 0.015
219, 19 Jan, 12:52:41, 0.027
220, 19 Jan, 12:53:41, 0.024
221, 19 Jan, 12:54:41, 0.040
222, 19 Jan, 12:55:41, 0.044
223, 19 Jan, 12:56:41, 0.033
224, 19 Jan, 12:57:41, 0.021
225, 19 Jan, 12:58:41, 0.029
226, 19 Jan, 12:59:41, 0.020
227, 19 Jan, 13:00:41, 0.030
228, 19 Jan, 13:01:41, 0.041
229, 19 Jan, 13:02:41, 0.037
230, 19 Jan, 13:03:41, 0.042
231, 19 Jan, 13:04:41, 0.020
232, 19 Jan, 13:05:41, 0.029
233, 19 Jan, 13:06:41, 0.078
234, 19 Jan, 13:07:41, 0.060
235, 19 Jan, 13:08:41, 0.110
236, 19 Jan, 13:09:41, 0.024
237, 19 Jan, 13:10:41, 0.060
238, 19 Jan, 13:11:41, 0.054
239, 19 Jan, 13:12:41, 0.056
240, 19 Jan, 13:13:41, 0.036
241, 19 Jan, 13:14:41, 0.067
242, 19 Jan, 13:15:41, 0.079
243, 19 Jan, 13:16:41, 0.051
244, 19 Jan, 13:17:41, 0.040
245, 19 Jan, 13:18:41, 0.027
246, 19 Jan, 13:19:41, 0.025
247, 19 Jan, 13:20:41, 0.026
248, 19 Jan, 13:21:41, 0.020
249, 19 Jan, 13:22:41, 0.017
250, 19 Jan, 13:23:41, 0.019
251, 19 Jan, 13:24:41, 0.035
252, 19 Jan, 13:25:41, 0.014
253, 19 Jan, 13:26:41, 0.015
254, 19 Jan, 13:27:41, 0.014
255, 19 Jan, 13:28:41, 0.034
256, 19 Jan, 13:29:41, 0.040
257, 19 Jan, 13:30:41, 0.012
258, 19 Jan, 13:31:41, 0.012
259, 19 Jan, 13:32:41, 0.014
260, 19 Jan, 13:33:41, 0.015
261, 19 Jan, 13:34:41, 0.012
262, 19 Jan, 13:35:41, 0.017
263, 19 Jan, 13:36:41, 0.020
264, 19 Jan, 13:37:41, 0.008
265, 19 Jan, 13:38:41, 0.013
266, 19 Jan, 13:39:41, 0.015
267, 19 Jan, 13:40:41, 0.014
268, 19 Jan, 13:41:41, 0.016
269, 19 Jan, 13:42:41, 0.007
270, 19 Jan, 13:43:41, 0.011

271, 19 Jan, 13:44:41, 0.012
272, 19 Jan, 13:45:41, 0.011
273, 19 Jan, 13:46:41, 0.010
274, 19 Jan, 13:47:41, 0.007
275, 19 Jan, 13:48:41, 0.013
276, 19 Jan, 13:49:41, 0.012
277, 19 Jan, 13:50:41, 0.015
278, 19 Jan, 13:51:41, 0.013
279, 19 Jan, 13:52:41, 0.008
280, 19 Jan, 13:53:41, 0.010
281, 19 Jan, 13:54:41, 0.006
282, 19 Jan, 13:55:41, 0.009
283, 19 Jan, 13:56:41, 0.010
284, 19 Jan, 13:57:41, 0.007
285, 19 Jan, 13:58:41, 0.008
286, 19 Jan, 13:59:41, 0.009
287, 19 Jan, 14:00:41, 0.006
288, 19 Jan, 14:01:41, 0.006
289, 19 Jan, 14:02:41, 0.008
290, 19 Jan, 14:03:41, 0.010
291, 19 Jan, 14:04:41, 0.008
292, 19 Jan, 14:05:41, 0.005
293, 19 Jan, 14:06:41, 0.015
294, 19 Jan, 14:07:41, 0.020
295, 19 Jan, 14:08:41, 0.008
296, 19 Jan, 14:09:41, 0.030
297, 19 Jan, 14:10:41, 0.011
298, 19 Jan, 14:11:41, 0.009
299, 19 Jan, 14:12:41, 0.007
300, 19 Jan, 14:13:41, 0.032
301, 19 Jan, 14:14:41, 0.047
302, 19 Jan, 14:15:41, 0.029
303, 19 Jan, 14:16:41, 0.016
304, 19 Jan, 14:17:41, 0.005
305, 19 Jan, 14:18:41, 0.007
306, 19 Jan, 14:19:41, 0.006
307, 19 Jan, 14:20:41, 0.010
308, 19 Jan, 14:21:41, 0.010
309, 19 Jan, 14:22:41, 0.009
310, 19 Jan, 14:23:41, 0.010
311, 19 Jan, 14:24:41, 0.025
312, 19 Jan, 14:25:41, 0.016
313, 19 Jan, 14:26:41, 0.024
314, 19 Jan, 14:27:41, 0.063
315, 19 Jan, 14:28:41, 0.049
316, 19 Jan, 14:29:41, 0.009
317, 19 Jan, 14:30:41, 0.007
318, 19 Jan, 14:31:41, 0.007
319, 19 Jan, 14:32:41, 0.009
320, 19 Jan, 14:33:41, 0.020
321, 19 Jan, 14:34:41, 0.008
322, 19 Jan, 14:35:41, 0.008
323, 19 Jan, 14:36:41, 0.007
324, 19 Jan, 14:37:41, 0.005
325, 19 Jan, 14:38:41, 0.011
326, 19 Jan, 14:39:41, 0.043
327, 19 Jan, 14:40:41, 0.027
328, 19 Jan, 14:41:41, 0.007
329, 19 Jan, 14:42:41, 0.007
330, 19 Jan, 14:43:41, 0.004
331, 19 Jan, 14:44:41, 0.006
332, 19 Jan, 14:45:41, 0.004
333, 19 Jan, 14:46:41, 0.008


pDR-1000 / Tag # 37 / Start time: Jan 20, 08:50:39
0.100
0.090
0.080
0.070
0.060
0.050
0.040
0.030
0.020
0.010
0.000
mg/m³
08:52
08:53
08:54
08:55
08:56
08:57
08:58
08:59
09:00
09:01
09:02
09:03
Time (pDR)

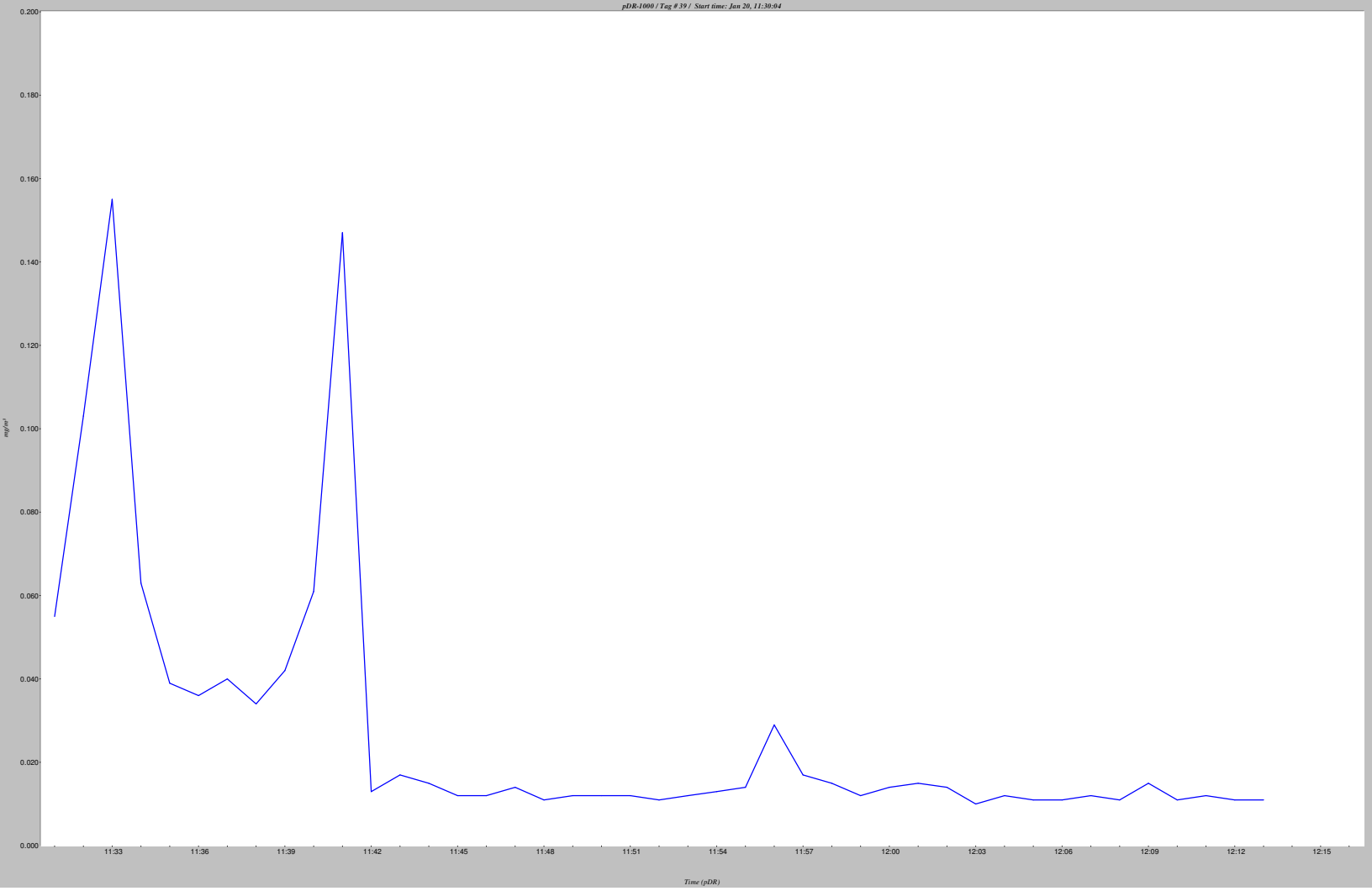
pDR-1000
Tag Number: 37
Number of logged points: 12
Start time and date: 08:50:39 20-Jan
Elapsed time: 00:12:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.382 mg/m³
Time at maximum: 09:02:57 Jan 20
Max STEL Concentration: 0.020 mg/m³
Time at max STEL: 09:02:09 Jan 20
Overall Avg Conc: 0.034 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	20 Jan	08:51:39	0.015
2	20 Jan	08:52:39	0.024
3	20 Jan	08:53:39	0.040
4	20 Jan	08:54:39	0.018
5	20 Jan	08:55:39	0.014
6	20 Jan	08:56:39	0.016
7	20 Jan	08:57:39	0.023
8	20 Jan	08:58:39	0.027
9	20 Jan	08:59:39	0.033
10	20 Jan	09:00:39	0.017
11	20 Jan	09:01:39	0.061
12	20 Jan	09:02:39	0.018


pDR-1000 / Tag # 38 / Start time: Jan 20, 10:46:32
mg/m³
0.018
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10:48
10:51
10:54
10:57
11:00
11:03
11:06
11:09
11:12
11:15
11:18
11:21
11:24
11:27
11:30
Time (pDR)

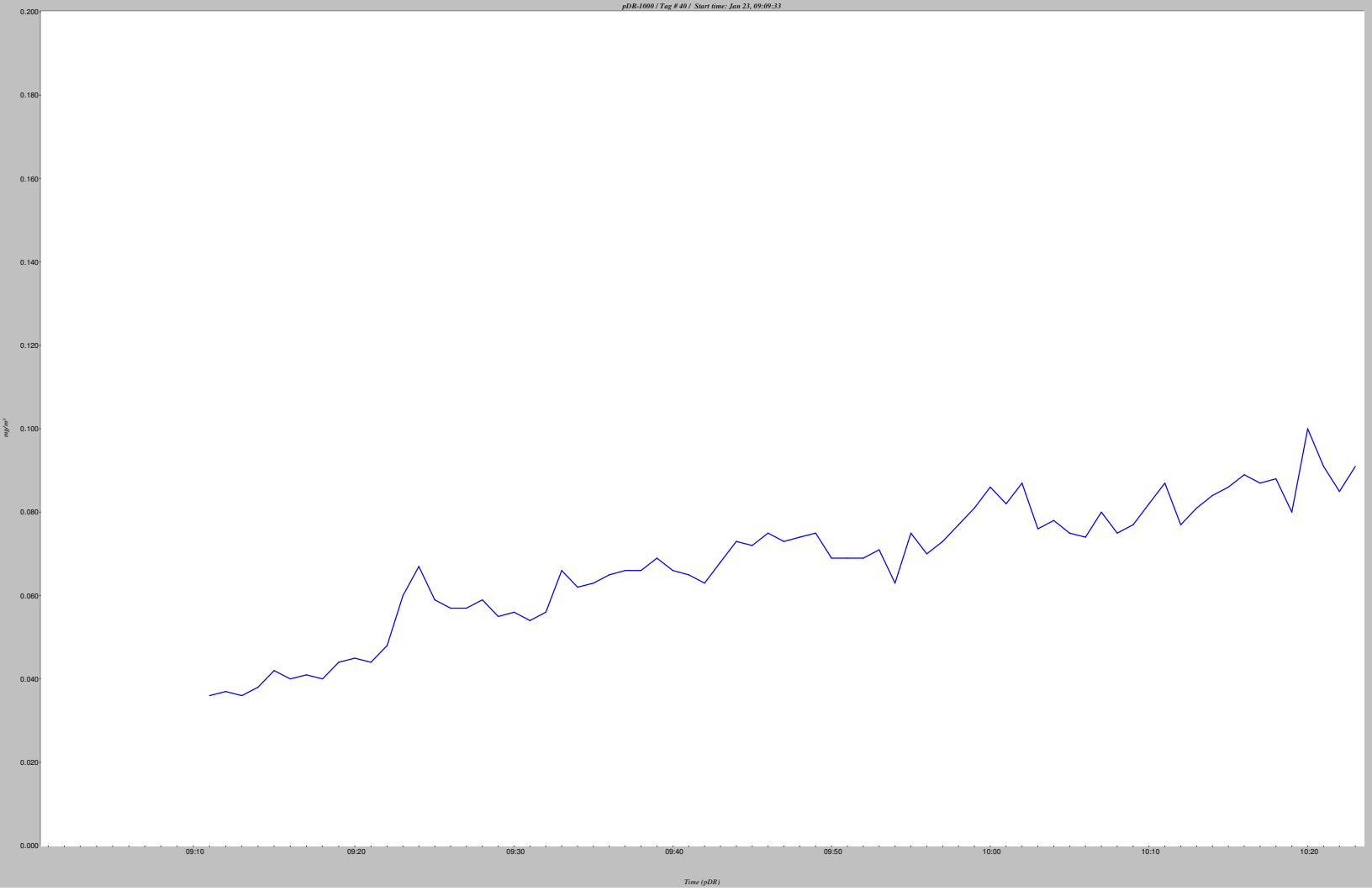
pDR-1000
Tag Number: 38
Number of logged points: 42
Start time and date: 10:46:32 20-Jan
Elapsed time: 00:42:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.070 mg/m³
Time at maximum: 11:28:44 Jan 20
Max STEL Concentration: 0.011 mg/m³
Time at max STEL: 11:29:03 Jan 20
Overall Avg Conc: 0.010 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	20 Jan	10:47:32	0.011
2	20 Jan	10:48:32	0.006
3	20 Jan	10:49:32	0.009
4	20 Jan	10:50:32	0.009
5	20 Jan	10:51:32	0.007
6	20 Jan	10:52:32	0.008
7	20 Jan	10:53:32	0.009
8	20 Jan	10:54:32	0.013
9	20 Jan	10:55:32	0.012
10	20 Jan	10:56:32	0.007
11	20 Jan	10:57:32	0.008
12	20 Jan	10:58:32	0.009
13	20 Jan	10:59:32	0.011
14	20 Jan	11:00:32	0.009
15	20 Jan	11:01:32	0.010
16	20 Jan	11:02:32	0.009
17	20 Jan	11:03:32	0.011
18	20 Jan	11:04:32	0.010
19	20 Jan	11:05:32	0.009
20	20 Jan	11:06:32	0.011
21	20 Jan	11:07:32	0.010
22	20 Jan	11:08:32	0.010
23	20 Jan	11:09:32	0.008
24	20 Jan	11:10:32	0.010
25	20 Jan	11:11:32	0.010
26	20 Jan	11:12:32	0.012
27	20 Jan	11:13:32	0.010
28	20 Jan	11:14:32	0.011
29	20 Jan	11:15:32	0.009
30	20 Jan	11:16:32	0.009
31	20 Jan	11:17:32	0.009
32	20 Jan	11:18:32	0.007
33	20 Jan	11:19:32	0.009
34	20 Jan	11:20:32	0.008
35	20 Jan	11:21:32	0.012
36	20 Jan	11:22:32	0.014
37	20 Jan	11:23:32	0.008
38	20 Jan	11:24:32	0.008
39	20 Jan	11:25:32	0.006
40	20 Jan	11:26:32	0.008
41	20 Jan	11:27:32	0.009
42	20 Jan	11:28:32	0.011


pDR-1000 / Tag # 39 / Start time: Jan 20, 11:30:04
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
11:33
11:36
11:39
11:42
11:45
11:48
11:51
11:54
11:57
12:00
12:03
12:06
12:09
12:12
12:15
Time (pDR)

pDR-1000
Tag Number: 39
Number of logged points: 43
Start time and date: 11:30:04 20-Jan
Elapsed time: 00:43:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.488 mg/m³
Time at maximum: 11:41:02 Jan 20
Max STEL Concentration: 0.055 mg/m³
Time at max STEL: 11:44:04 Jan 20
Overall Avg Conc: 0.028 mg/m³
Logged Data:

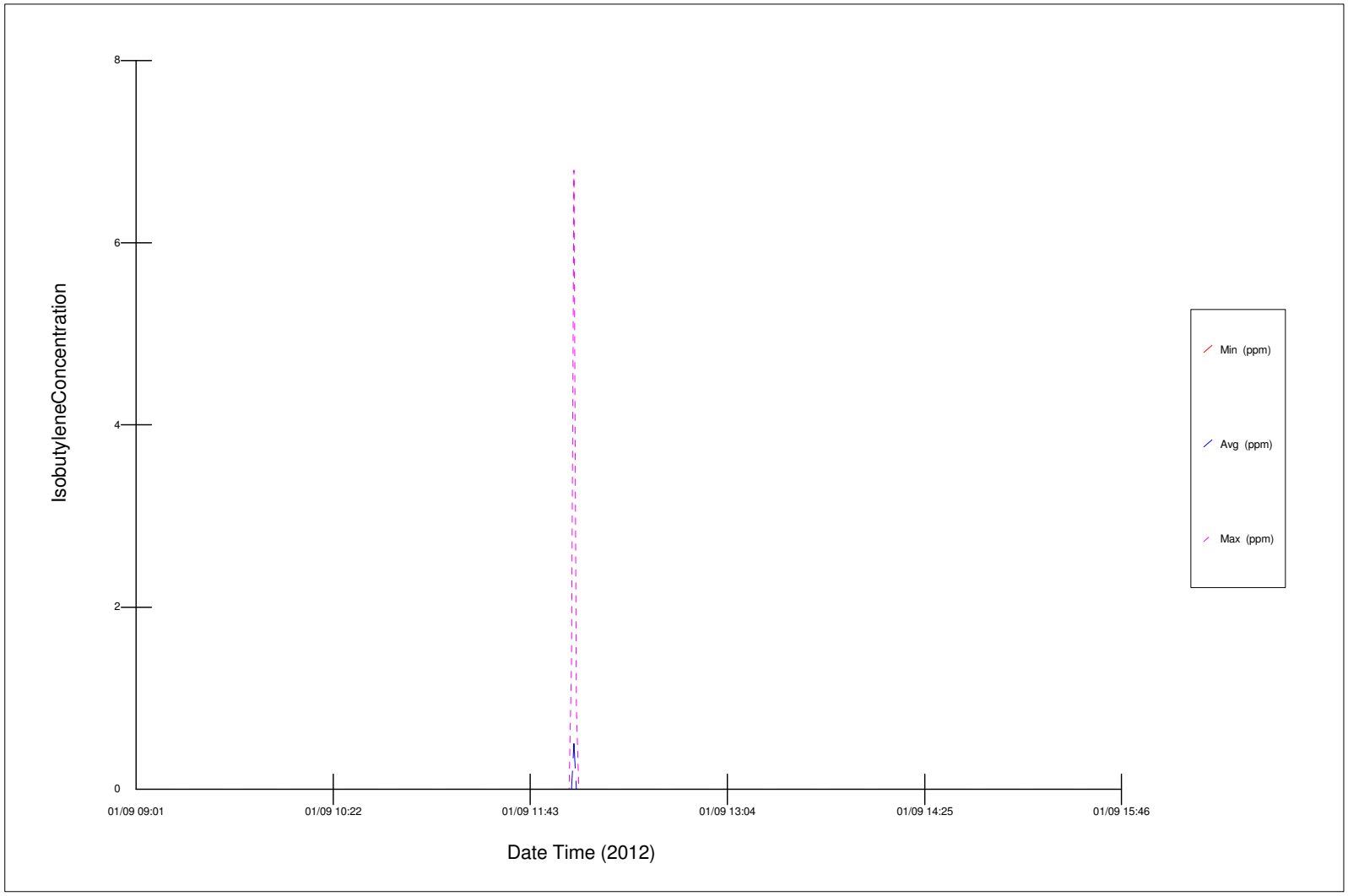
Point	Date	Time	Avg.(mg/m³)
1	20 Jan	11:31:04	0.055
2	20 Jan	11:32:04	0.103
3	20 Jan	11:33:04	0.155
4	20 Jan	11:34:04	0.063
5	20 Jan	11:35:04	0.039
6	20 Jan	11:36:04	0.036
7	20 Jan	11:37:04	0.040
8	20 Jan	11:38:04	0.034
9	20 Jan	11:39:04	0.042
10	20 Jan	11:40:04	0.061
11	20 Jan	11:41:04	0.147
12	20 Jan	11:42:04	0.013
13	20 Jan	11:43:04	0.017
14	20 Jan	11:44:04	0.015
15	20 Jan	11:45:04	0.012
16	20 Jan	11:46:04	0.012
17	20 Jan	11:47:04	0.014
18	20 Jan	11:48:04	0.011
19	20 Jan	11:49:04	0.012
20	20 Jan	11:50:04	0.012
21	20 Jan	11:51:04	0.012
22	20 Jan	11:52:04	0.011
23	20 Jan	11:53:04	0.012
24	20 Jan	11:54:04	0.013
25	20 Jan	11:55:04	0.014
26	20 Jan	11:56:04	0.029
27	20 Jan	11:57:04	0.017
28	20 Jan	11:58:04	0.015
29	20 Jan	11:59:04	0.012
30	20 Jan	12:00:04	0.014
31	20 Jan	12:01:04	0.015
32	20 Jan	12:02:04	0.014
33	20 Jan	12:03:04	0.010
34	20 Jan	12:04:04	0.012
35	20 Jan	12:05:04	0.011
36	20 Jan	12:06:04	0.011
37	20 Jan	12:07:04	0.012
38	20 Jan	12:08:04	0.011
39	20 Jan	12:09:04	0.015
40	20 Jan	12:10:04	0.011
41	20 Jan	12:11:04	0.012
42	20 Jan	12:12:04	0.011
43	20 Jan	12:13:04	0.011


pDR-1000 / Tag # 40 / Start time: Jan 23, 09:09:33
0.200
0.180
0.160
0.140
0.120
0.100
0.080
0.060
0.040
0.020
0.000
mg/m³
09:10
09:20
09:30
09:40
09:50
10:00
10:10
10:20
Time (pDR)

pDR-1000
Tag Number: 40
Number of logged points: 73
Start time and date: 09:09:33 23-Jan
Elapsed time: 01:13:00
Logging period (sec): 60
Calibration Factor (%): 100
Max Display Concentration: 0.139 mg/m³
Time at maximum: 10:18:55 Jan 23
Max STEL Concentration: 0.086 mg/m³
Time at max STEL: 10:22:33 Jan 23
Overall Avg Conc: 0.068 mg/m³
Logged Data:

Point	Date	Time	Avg.(mg/m³)
1	23 Jan	09:10:33	0.036
2	23 Jan	09:11:33	0.037
3	23 Jan	09:12:33	0.036
4	23 Jan	09:13:33	0.038
5	23 Jan	09:14:33	0.042
6	23 Jan	09:15:33	0.040
7	23 Jan	09:16:33	0.041
8	23 Jan	09:17:33	0.040
9	23 Jan	09:18:33	0.044
10	23 Jan	09:19:33	0.045
11	23 Jan	09:20:33	0.044
12	23 Jan	09:21:33	0.048
13	23 Jan	09:22:33	0.060
14	23 Jan	09:23:33	0.067
15	23 Jan	09:24:33	0.059
16	23 Jan	09:25:33	0.057
17	23 Jan	09:26:33	0.057
18	23 Jan	09:27:33	0.059
19	23 Jan	09:28:33	0.055
20	23 Jan	09:29:33	0.056
21	23 Jan	09:30:33	0.054
22	23 Jan	09:31:33	0.056
23	23 Jan	09:32:33	0.066
24	23 Jan	09:33:33	0.062
25	23 Jan	09:34:33	0.063
26	23 Jan	09:35:33	0.065
27	23 Jan	09:36:33	0.066
28	23 Jan	09:37:33	0.066
29	23 Jan	09:38:33	0.069
30	23 Jan	09:39:33	0.066
31	23 Jan	09:40:33	0.065
32	23 Jan	09:41:33	0.063
33	23 Jan	09:42:33	0.068
34	23 Jan	09:43:33	0.073
35	23 Jan	09:44:33	0.072
36	23 Jan	09:45:33	0.075
37	23 Jan	09:46:33	0.073
38	23 Jan	09:47:33	0.074
39	23 Jan	09:48:33	0.075
40	23 Jan	09:49:33	0.069
41	23 Jan	09:50:33	0.069
42	23 Jan	09:51:33	0.069
43	23 Jan	09:52:33	0.071
44	23 Jan	09:53:33	0.063
45	23 Jan	09:54:33	0.075
46	23 Jan	09:55:33	0.070
47	23 Jan	09:56:33	0.073
48	23 Jan	09:57:33	0.077
49	23 Jan	09:58:33	0.081
50	23 Jan	09:59:33	0.086
51	23 Jan	10:00:33	0.082
52	23 Jan	10:01:33	0.087
53	23 Jan	10:02:33	0.076
54	23 Jan	10:03:33	0.078
55	23 Jan	10:04:33	0.075
56	23 Jan	10:05:33	0.074
57	23 Jan	10:06:33	0.080

58, 23 Jan, 10:07:33, 0.075
59, 23 Jan, 10:08:33, 0.077
60, 23 Jan, 10:09:33, 0.082
61, 23 Jan, 10:10:33, 0.087
62, 23 Jan, 10:11:33, 0.077
63, 23 Jan, 10:12:33, 0.081
64, 23 Jan, 10:13:33, 0.084
65, 23 Jan, 10:14:33, 0.086
66, 23 Jan, 10:15:33, 0.089
67, 23 Jan, 10:16:33, 0.087
68, 23 Jan, 10:17:33, 0.088
69, 23 Jan, 10:18:33, 0.080
70, 23 Jan, 10:19:33, 0.100
71, 23 Jan, 10:20:33, 0.091
72, 23 Jan, 10:21:33, 0.085
73, 23 Jan, 10:22:33, 0.091


8
6
4
2
0
IsobutyleneConcentration
01/09 09:01
01/09 10:22
01/09 11:43
01/09 13:04
01/09 14:25
01/09 15:46
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000016
Data Points: 404 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/09/2012 09:01	0.0	0.0	0.0
2	01/09/2012 09:02	0.0	0.0	0.0
3	01/09/2012 09:03	0.0	0.0	0.0
4	01/09/2012 09:04	0.0	0.0	0.0
5	01/09/2012 09:05	0.0	0.0	0.0
6	01/09/2012 09:06	0.0	0.0	0.0
7	01/09/2012 09:07	0.0	0.0	0.0
8	01/09/2012 09:08	0.0	0.0	0.0
9	01/09/2012 09:09	0.0	0.0	0.0
10	01/09/2012 09:10	0.0	0.0	0.0
11	01/09/2012 09:11	0.0	0.0	0.0
12	01/09/2012 09:12	0.0	0.0	0.0
13	01/09/2012 09:13	0.0	0.0	0.0
14	01/09/2012 09:14	0.0	0.0	0.0
15	01/09/2012 09:15	0.0	0.0	0.0
16	01/09/2012 09:16	0.0	0.0	0.0
17	01/09/2012 09:17	0.0	0.0	0.0
18	01/09/2012 09:18	0.0	0.0	0.0
19	01/09/2012 09:19	0.0	0.0	0.0
20	01/09/2012 09:20	0.0	0.0	0.0
21	01/09/2012 09:21	0.0	0.0	0.0
22	01/09/2012 09:22	0.0	0.0	0.0
23	01/09/2012 09:23	0.0	0.0	0.0
24	01/09/2012 09:24	0.0	0.0	0.0
25	01/09/2012 09:25	0.0	0.0	0.0
26	01/09/2012 09:26	0.0	0.0	0.0
27	01/09/2012 09:27	0.0	0.0	0.0
28	01/09/2012 09:28	0.0	0.0	0.0
29	01/09/2012 09:29	0.0	0.0	0.0
30	01/09/2012 09:30	0.0	0.0	0.0
31	01/09/2012 09:31	0.0	0.0	0.0
32	01/09/2012 09:32	0.0	0.0	0.0
33	01/09/2012 09:33	0.0	0.0	0.0
34	01/09/2012 09:34	0.0	0.0	0.0
35	01/09/2012 09:35	0.0	0.0	0.0
36	01/09/2012 09:36	0.0	0.0	0.0
37	01/09/2012 09:37	0.0	0.0	0.0
38	01/09/2012 09:38	0.0	0.0	0.0
39	01/09/2012 09:39	0.0	0.0	0.0
40	01/09/2012 09:40	0.0	0.0	0.0
41	01/09/2012 09:41	0.0	0.0	0.0
42	01/09/2012 09:42	0.0	0.0	0.0
43	01/09/2012 09:43	0.0	0.0	0.0
44	01/09/2012 09:44	0.0	0.0	0.0
45	01/09/2012 09:45	0.0	0.0	0.0
46	01/09/2012 09:46	0.0	0.0	0.0
47	01/09/2012 09:47	0.0	0.0	0.0
48	01/09/2012 09:48	0.0	0.0	0.0
49	01/09/2012 09:49	0.0	0.0	0.0
50	01/09/2012 09:50	0.0	0.0	0.0
51	01/09/2012 09:51	0.0	0.0	0.0
52	01/09/2012 09:52	0.0	0.0	0.0
53	01/09/2012 09:53	0.0	0.0	0.0
54	01/09/2012 09:54	0.0	0.0	0.0
55	01/09/2012 09:55	0.0	0.0	0.0
56	01/09/2012 09:56	0.0	0.0	0.0
57	01/09/2012 09:57	0.0	0.0	0.0
58	01/09/2012 09:58	0.0	0.0	0.0

59	01/09/2012 09:59	0.0	0.0	0.0
60	01/09/2012 10:00	0.0	0.0	0.0
61	01/09/2012 10:01	0.0	0.0	0.0
62	01/09/2012 10:02	0.0	0.0	0.0
63	01/09/2012 10:03	0.0	0.0	0.0
64	01/09/2012 10:04	0.0	0.0	0.0
65	01/09/2012 10:05	0.0	0.0	0.0
66	01/09/2012 10:06	0.0	0.0	0.0
67	01/09/2012 10:07	0.0	0.0	0.0
68	01/09/2012 10:08	0.0	0.0	0.0
69	01/09/2012 10:09	0.0	0.0	0.0
70	01/09/2012 10:10	0.0	0.0	0.0
71	01/09/2012 10:11	0.0	0.0	0.0
72	01/09/2012 10:12	0.0	0.0	0.0
73	01/09/2012 10:13	0.0	0.0	0.0
74	01/09/2012 10:14	0.0	0.0	0.0
75	01/09/2012 10:15	0.0	0.0	0.0
76	01/09/2012 10:16	0.0	0.0	0.0
77	01/09/2012 10:17	0.0	0.0	0.0
78	01/09/2012 10:18	0.0	0.0	0.0
79	01/09/2012 10:19	0.0	0.0	0.0
80	01/09/2012 10:20	0.0	0.0	0.0
81	01/09/2012 10:21	0.0	0.0	0.0
82	01/09/2012 10:22	0.0	0.0	0.0
83	01/09/2012 10:23	0.0	0.0	0.0
84	01/09/2012 10:24	0.0	0.0	0.0
85	01/09/2012 10:25	0.0	0.0	0.0
86	01/09/2012 10:26	0.0	0.0	0.0
87	01/09/2012 10:27	0.0	0.0	0.0
88	01/09/2012 10:28	0.0	0.0	0.0
89	01/09/2012 10:29	0.0	0.0	0.0
90	01/09/2012 10:30	0.0	0.0	0.0
91	01/09/2012 10:31	0.0	0.0	0.0
92	01/09/2012 10:32	0.0	0.0	0.0
93	01/09/2012 10:33	0.0	0.0	0.0
94	01/09/2012 10:34	0.0	0.0	0.0
95	01/09/2012 10:35	0.0	0.0	0.0
96	01/09/2012 10:36	0.0	0.0	0.0
97	01/09/2012 10:37	0.0	0.0	0.0
98	01/09/2012 10:38	0.0	0.0	0.0
99	01/09/2012 10:39	0.0	0.0	0.0
100	01/09/2012 10:40	0.0	0.0	0.0
101	01/09/2012 10:41	0.0	0.0	0.0
102	01/09/2012 10:42	0.0	0.0	0.0
103	01/09/2012 10:43	0.0	0.0	0.0
104	01/09/2012 10:44	0.0	0.0	0.0
105	01/09/2012 10:45	0.0	0.0	0.0
106	01/09/2012 10:46	0.0	0.0	0.0
107	01/09/2012 10:47	0.0	0.0	0.0
108	01/09/2012 10:48	0.0	0.0	0.0
109	01/09/2012 10:49	0.0	0.0	0.0
110	01/09/2012 10:50	0.0	0.0	0.0
111	01/09/2012 10:51	0.0	0.0	0.0
112	01/09/2012 10:52	0.0	0.0	0.0
113	01/09/2012 10:53	0.0	0.0	0.0
114	01/09/2012 10:54	0.0	0.0	0.0
115	01/09/2012 10:55	0.0	0.0	0.0
116	01/09/2012 10:56	0.0	0.0	0.0
117	01/09/2012 10:57	0.0	0.0	0.0
118	01/09/2012 10:58	0.0	0.0	0.0
119	01/09/2012 10:59	0.0	0.0	0.0
120	01/09/2012 11:00	0.0	0.0	0.0
121	01/09/2012 11:01	0.0	0.0	0.0
122	01/09/2012 11:02	0.0	0.0	0.0
123	01/09/2012 11:03	0.0	0.0	0.0
124	01/09/2012 11:04	0.0	0.0	0.0
125	01/09/2012 11:05	0.0	0.0	0.0
126	01/09/2012 11:06	0.0	0.0	0.0
127	01/09/2012 11:07	0.0	0.0	0.0

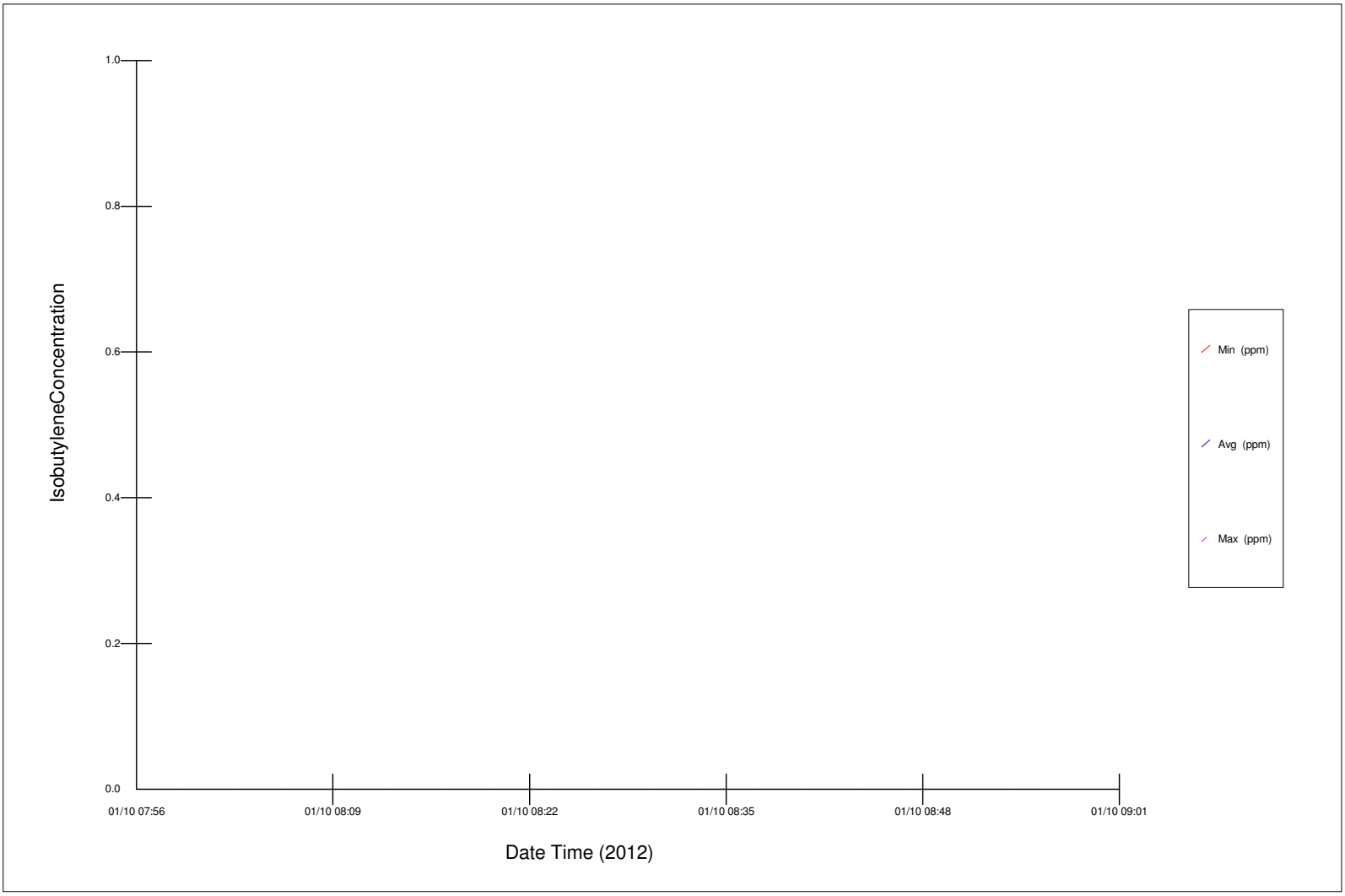
128	01/09/2012 11:08	0.0	0.0	0.0
129	01/09/2012 11:09	0.0	0.0	0.0
130	01/09/2012 11:10	0.0	0.0	0.0
131	01/09/2012 11:11	0.0	0.0	0.0
132	01/09/2012 11:12	0.0	0.0	0.0
133	01/09/2012 11:13	0.0	0.0	0.0
134	01/09/2012 11:14	0.0	0.0	0.0
135	01/09/2012 11:15	0.0	0.0	0.0
136	01/09/2012 11:16	0.0	0.0	0.0
137	01/09/2012 11:17	0.0	0.0	0.0
138	01/09/2012 11:18	0.0	0.0	0.0
139	01/09/2012 11:19	0.0	0.0	0.0
140	01/09/2012 11:20	0.0	0.0	0.0
141	01/09/2012 11:21	0.0	0.0	0.0
142	01/09/2012 11:22	0.0	0.0	0.0
143	01/09/2012 11:23	0.0	0.0	0.0
144	01/09/2012 11:24	0.0	0.0	0.0
145	01/09/2012 11:25	0.0	0.0	0.0
146	01/09/2012 11:26	0.0	0.0	0.0
147	01/09/2012 11:27	0.0	0.0	0.0
148	01/09/2012 11:28	0.0	0.0	0.0
149	01/09/2012 11:29	0.0	0.0	0.0
150	01/09/2012 11:30	0.0	0.0	0.0
151	01/09/2012 11:31	0.0	0.0	0.0
152	01/09/2012 11:32	0.0	0.0	0.0
153	01/09/2012 11:33	0.0	0.0	0.0
154	01/09/2012 11:34	0.0	0.0	0.0
155	01/09/2012 11:35	0.0	0.0	0.0
156	01/09/2012 11:36	0.0	0.0	0.0
157	01/09/2012 11:37	0.0	0.0	0.0
158	01/09/2012 11:38	0.0	0.0	0.0
159	01/09/2012 11:39	0.0	0.0	0.0
160	01/09/2012 11:40	0.0	0.0	0.0
161	01/09/2012 11:41	0.0	0.0	0.0
162	01/09/2012 11:42	0.0	0.0	0.0
163	01/09/2012 11:43	0.0	0.0	0.0
164	01/09/2012 11:44	0.0	0.0	0.0
165	01/09/2012 11:45	0.0	0.0	0.0
166	01/09/2012 11:46	0.0	0.0	0.0
167	01/09/2012 11:47	0.0	0.0	0.0
168	01/09/2012 11:48	0.0	0.0	0.0
169	01/09/2012 11:49	0.0	0.0	0.0
170	01/09/2012 11:50	0.0	0.0	0.0
171	01/09/2012 11:51	0.0	0.0	0.0
172	01/09/2012 11:52	0.0	0.0	0.0
173	01/09/2012 11:53	0.0	0.0	0.0
174	01/09/2012 11:54	0.0	0.0	0.0
175	01/09/2012 11:55	0.0	0.0	0.0
176	01/09/2012 11:56	0.0	0.0	0.0
177	01/09/2012 11:57	0.0	0.0	0.0
178	01/09/2012 11:58	0.0	0.0	0.0
179	01/09/2012 11:59	0.0	0.0	0.0
180	01/09/2012 12:00	0.0	0.0	1.4
181	01/09/2012 12:01	0.0	0.5	6.8
182	01/09/2012 12:02	0.0	0.0	0.9
183	01/09/2012 12:03	0.0	0.0	0.0
184	01/09/2012 12:04	0.0	0.0	0.0
185	01/09/2012 12:05	0.0	0.0	0.0
186	01/09/2012 12:06	0.0	0.0	0.0
187	01/09/2012 12:07	0.0	0.0	0.0
188	01/09/2012 12:08	0.0	0.0	0.0
189	01/09/2012 12:09	0.0	0.0	0.0
190	01/09/2012 12:10	0.0	0.0	0.0
191	01/09/2012 12:11	0.0	0.0	0.0
192	01/09/2012 12:12	0.0	0.0	0.0
193	01/09/2012 12:13	0.0	0.0	0.0
194	01/09/2012 12:14	0.0	0.0	0.0
195	01/09/2012 12:15	0.0	0.0	0.0
196	01/09/2012 12:16	0.0	0.0	0.0

197	01/09/2012 12:17	0.0	0.0	0.0
198	01/09/2012 12:18	0.0	0.0	0.0
199	01/09/2012 12:19	0.0	0.0	0.0
200	01/09/2012 12:20	0.0	0.0	0.0
201	01/09/2012 12:21	0.0	0.0	0.0
202	01/09/2012 12:22	0.0	0.0	0.0
203	01/09/2012 12:23	0.0	0.0	0.0
204	01/09/2012 12:24	0.0	0.0	0.0
205	01/09/2012 12:25	0.0	0.0	0.0
206	01/09/2012 12:26	0.0	0.0	0.0
207	01/09/2012 12:27	0.0	0.0	0.0
208	01/09/2012 12:28	0.0	0.0	0.0
209	01/09/2012 12:29	0.0	0.0	0.0
210	01/09/2012 12:30	0.0	0.0	0.0
211	01/09/2012 12:31	0.0	0.0	0.0
212	01/09/2012 12:32	0.0	0.0	0.0
213	01/09/2012 12:33	0.0	0.0	0.0
214	01/09/2012 12:34	0.0	0.0	0.0
215	01/09/2012 12:35	0.0	0.0	0.0
216	01/09/2012 12:36	0.0	0.0	0.0
217	01/09/2012 12:37	0.0	0.0	0.0
218	01/09/2012 12:38	0.0	0.0	0.0
219	01/09/2012 12:39	0.0	0.0	0.0
220	01/09/2012 12:40	0.0	0.0	0.0
221	01/09/2012 12:41	0.0	0.0	0.0
222	01/09/2012 12:42	0.0	0.0	0.0
223	01/09/2012 12:43	0.0	0.0	0.0
224	01/09/2012 12:44	0.0	0.0	0.0
225	01/09/2012 12:45	0.0	0.0	0.0
226	01/09/2012 12:46	0.0	0.0	0.0
227	01/09/2012 12:47	0.0	0.0	0.0
228	01/09/2012 12:48	0.0	0.0	0.0
229	01/09/2012 12:49	0.0	0.0	0.0
230	01/09/2012 12:50	0.0	0.0	0.0
231	01/09/2012 12:51	0.0	0.0	0.0
232	01/09/2012 12:52	0.0	0.0	0.0
233	01/09/2012 12:53	0.0	0.0	0.0
234	01/09/2012 12:54	0.0	0.0	0.0
235	01/09/2012 12:55	0.0	0.0	0.0
236	01/09/2012 12:56	0.0	0.0	0.0
237	01/09/2012 12:57	0.0	0.0	0.0
238	01/09/2012 12:58	0.0	0.0	0.0
239	01/09/2012 12:59	0.0	0.0	0.0
240	01/09/2012 13:00	0.0	0.0	0.0
241	01/09/2012 13:01	0.0	0.0	0.0
242	01/09/2012 13:02	0.0	0.0	0.0
243	01/09/2012 13:03	0.0	0.0	0.0
244	01/09/2012 13:04	0.0	0.0	0.0
245	01/09/2012 13:05	0.0	0.0	0.0
246	01/09/2012 13:06	0.0	0.0	0.0
247	01/09/2012 13:07	0.0	0.0	0.0
248	01/09/2012 13:08	0.0	0.0	0.0
249	01/09/2012 13:09	0.0	0.0	0.0
250	01/09/2012 13:10	0.0	0.0	0.0
251	01/09/2012 13:11	0.0	0.0	0.0
252	01/09/2012 13:12	0.0	0.0	0.0
253	01/09/2012 13:13	0.0	0.0	0.0
254	01/09/2012 13:14	0.0	0.0	0.0
255	01/09/2012 13:15	0.0	0.0	0.0
256	01/09/2012 13:16	0.0	0.0	0.0
257	01/09/2012 13:17	0.0	0.0	0.0
258	01/09/2012 13:18	0.0	0.0	0.0
259	01/09/2012 13:19	0.0	0.0	0.0
260	01/09/2012 13:20	0.0	0.0	0.0
261	01/09/2012 13:21	0.0	0.0	0.0
262	01/09/2012 13:22	0.0	0.0	0.0
263	01/09/2012 13:23	0.0	0.0	0.0
264	01/09/2012 13:24	0.0	0.0	0.0
265	01/09/2012 13:25	0.0	0.0	0.0

266	01/09/2012 13:26	0.0	0.0	0.0
267	01/09/2012 13:27	0.0	0.0	0.0
268	01/09/2012 13:28	0.0	0.0	0.0
269	01/09/2012 13:29	0.0	0.0	0.0
270	01/09/2012 13:30	0.0	0.0	0.0
271	01/09/2012 13:31	0.0	0.0	0.0
272	01/09/2012 13:32	0.0	0.0	0.0
273	01/09/2012 13:33	0.0	0.0	0.0
274	01/09/2012 13:34	0.0	0.0	0.0
275	01/09/2012 13:35	0.0	0.0	0.0
276	01/09/2012 13:36	0.0	0.0	0.0
277	01/09/2012 13:37	0.0	0.0	0.0
278	01/09/2012 13:38	0.0	0.0	0.0
279	01/09/2012 13:39	0.0	0.0	0.0
280	01/09/2012 13:40	0.0	0.0	0.0
281	01/09/2012 13:41	0.0	0.0	0.0
282	01/09/2012 13:42	0.0	0.0	0.0
283	01/09/2012 13:43	0.0	0.0	0.0
284	01/09/2012 13:44	0.0	0.0	0.0
285	01/09/2012 13:45	0.0	0.0	0.0
286	01/09/2012 13:46	0.0	0.0	0.0
287	01/09/2012 13:47	0.0	0.0	0.0
288	01/09/2012 13:48	0.0	0.0	0.0
289	01/09/2012 13:49	0.0	0.0	0.0
290	01/09/2012 13:50	0.0	0.0	0.0
291	01/09/2012 13:51	0.0	0.0	0.0
292	01/09/2012 13:52	0.0	0.0	0.0
293	01/09/2012 13:53	0.0	0.0	0.0
294	01/09/2012 13:54	0.0	0.0	0.0
295	01/09/2012 13:55	0.0	0.0	0.0
296	01/09/2012 13:56	0.0	0.0	0.0
297	01/09/2012 13:57	0.0	0.0	0.0
298	01/09/2012 13:58	0.0	0.0	0.0
299	01/09/2012 13:59	0.0	0.0	0.0
300	01/09/2012 14:00	0.0	0.0	0.0
301	01/09/2012 14:01	0.0	0.0	0.0
302	01/09/2012 14:02	0.0	0.0	0.0
303	01/09/2012 14:03	0.0	0.0	0.0
304	01/09/2012 14:04	0.0	0.0	0.0
305	01/09/2012 14:05	0.0	0.0	0.0
306	01/09/2012 14:06	0.0	0.0	0.0
307	01/09/2012 14:07	0.0	0.0	0.0
308	01/09/2012 14:08	0.0	0.0	0.0
309	01/09/2012 14:09	0.0	0.0	0.0
310	01/09/2012 14:10	0.0	0.0	0.0
311	01/09/2012 14:11	0.0	0.0	0.0
312	01/09/2012 14:12	0.0	0.0	0.0
313	01/09/2012 14:13	0.0	0.0	0.0
314	01/09/2012 14:14	0.0	0.0	0.0
315	01/09/2012 14:15	0.0	0.0	0.0
316	01/09/2012 14:16	0.0	0.0	0.0
317	01/09/2012 14:17	0.0	0.0	0.0
318	01/09/2012 14:18	0.0	0.0	0.0
319	01/09/2012 14:19	0.0	0.0	0.0
320	01/09/2012 14:20	0.0	0.0	0.0
321	01/09/2012 14:21	0.0	0.0	0.0
322	01/09/2012 14:22	0.0	0.0	0.0
323	01/09/2012 14:23	0.0	0.0	0.0
324	01/09/2012 14:24	0.0	0.0	0.0
325	01/09/2012 14:25	0.0	0.0	0.0
326	01/09/2012 14:26	0.0	0.0	0.0
327	01/09/2012 14:27	0.0	0.0	0.0
328	01/09/2012 14:28	0.0	0.0	0.0
329	01/09/2012 14:29	0.0	0.0	0.0
330	01/09/2012 14:30	0.0	0.0	0.0
331	01/09/2012 14:31	0.0	0.0	0.0
332	01/09/2012 14:32	0.0	0.0	0.0
333	01/09/2012 14:33	0.0	0.0	0.0
334	01/09/2012 14:34	0.0	0.0	0.0

335	01/09/2012 14:35	0.0	0.0	0.0
336	01/09/2012 14:36	0.0	0.0	0.0
337	01/09/2012 14:37	0.0	0.0	0.0
338	01/09/2012 14:38	0.0	0.0	0.0
339	01/09/2012 14:39	0.0	0.0	0.0
340	01/09/2012 14:40	0.0	0.0	0.0
341	01/09/2012 14:41	0.0	0.0	0.0
342	01/09/2012 14:42	0.0	0.0	0.0
343	01/09/2012 14:43	0.0	0.0	0.0
344	01/09/2012 14:44	0.0	0.0	0.0
345	01/09/2012 14:45	0.0	0.0	0.0
346	01/09/2012 14:46	0.0	0.0	0.0
347	01/09/2012 14:47	0.0	0.0	0.0
348	01/09/2012 14:48	0.0	0.0	0.0
349	01/09/2012 14:49	0.0	0.0	0.0
350	01/09/2012 14:50	0.0	0.0	0.0
351	01/09/2012 14:51	0.0	0.0	0.0
352	01/09/2012 14:52	0.0	0.0	0.0
353	01/09/2012 14:53	0.0	0.0	0.0
354	01/09/2012 14:54	0.0	0.0	0.0
355	01/09/2012 14:55	0.0	0.0	0.0
356	01/09/2012 14:56	0.0	0.0	0.0
357	01/09/2012 14:57	0.0	0.0	0.0
358	01/09/2012 14:58	0.0	0.0	0.0
359	01/09/2012 14:59	0.0	0.0	0.0
360	01/09/2012 15:00	0.0	0.0	0.0
361	01/09/2012 15:01	0.0	0.0	0.0
362	01/09/2012 15:02	0.0	0.0	0.0
363	01/09/2012 15:03	0.0	0.0	0.0
364	01/09/2012 15:04	0.0	0.0	0.0
365	01/09/2012 15:05	0.0	0.0	0.0
366	01/09/2012 15:06	0.0	0.0	0.0
367	01/09/2012 15:07	0.0	0.0	0.0
368	01/09/2012 15:08	0.0	0.0	0.0
369	01/09/2012 15:09	0.0	0.0	0.0
370	01/09/2012 15:10	0.0	0.0	0.0
371	01/09/2012 15:11	0.0	0.0	0.0
372	01/09/2012 15:12	0.0	0.0	0.0
373	01/09/2012 15:13	0.0	0.0	0.0
374	01/09/2012 15:14	0.0	0.0	0.0
375	01/09/2012 15:15	0.0	0.0	0.0
376	01/09/2012 15:16	0.0	0.0	0.0
377	01/09/2012 15:17	0.0	0.0	0.0
378	01/09/2012 15:18	0.0	0.0	0.0
379	01/09/2012 15:19	0.0	0.0	0.0
380	01/09/2012 15:20	0.0	0.0	0.0
381	01/09/2012 15:21	0.0	0.0	0.0
382	01/09/2012 15:22	0.0	0.0	0.0
383	01/09/2012 15:23	0.0	0.0	0.0
384	01/09/2012 15:24	0.0	0.0	0.0
385	01/09/2012 15:25	0.0	0.0	0.0
386	01/09/2012 15:26	0.0	0.0	0.0
387	01/09/2012 15:27	0.0	0.0	0.0
388	01/09/2012 15:28	0.0	0.0	0.0
389	01/09/2012 15:29	0.0	0.0	0.0
390	01/09/2012 15:30	0.0	0.0	0.0
391	01/09/2012 15:31	0.0	0.0	0.0
392	01/09/2012 15:32	0.0	0.0	0.0
393	01/09/2012 15:33	0.0	0.0	0.0
394	01/09/2012 15:34	0.0	0.0	0.0
395	01/09/2012 15:35	0.0	0.0	0.0
396	01/09/2012 15:36	0.0	0.0	0.0
397	01/09/2012 15:37	0.0	0.0	0.0
398	01/09/2012 15:38	0.0	0.0	0.0
399	01/09/2012 15:39	0.0	0.0	0.0
400	01/09/2012 15:40	0.0	0.0	0.0
401	01/09/2012 15:41	0.0	0.0	0.0
402	01/09/2012 15:42	0.0	0.0	0.0
403	01/09/2012 15:43	0.0	0.0	0.0

404	01/09/2012 15:44	0.0	0.0	0.0

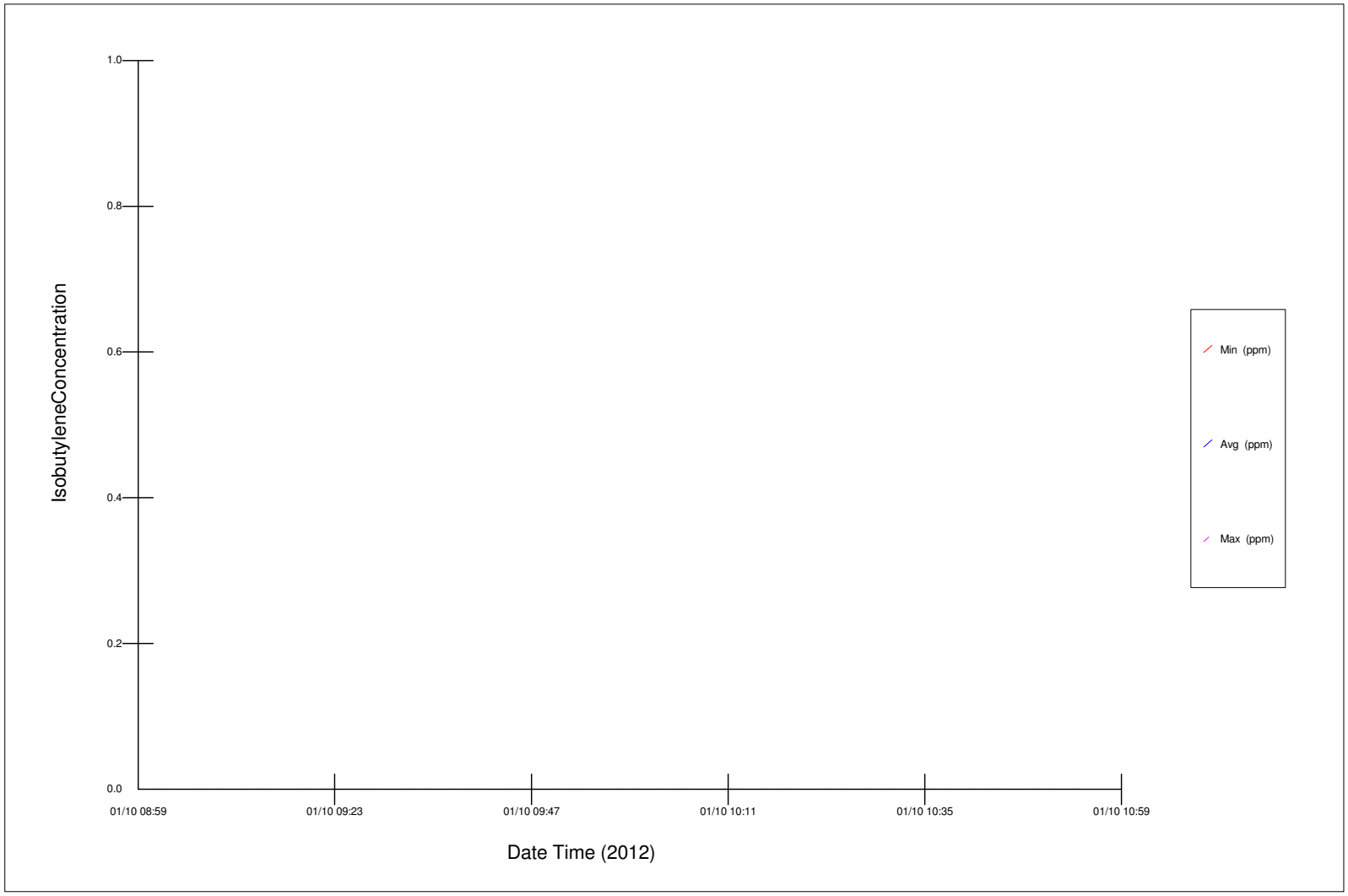

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 07:56
01/10 08:09
01/10 08:22
01/10 08:35
01/10 08:48
01/10 09:01
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000018
Data Points: 61 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	07:56	0.0	0.0	0.0
2	01/10/2012	07:57	0.0	0.0	0.0
3	01/10/2012	07:58	0.0	0.0	0.0
4	01/10/2012	07:59	0.0	0.0	0.0
5	01/10/2012	08:00	0.0	0.0	0.0
6	01/10/2012	08:01	0.0	0.0	0.0
7	01/10/2012	08:02	0.0	0.0	0.0
8	01/10/2012	08:03	0.0	0.0	0.0
9	01/10/2012	08:04	0.0	0.0	0.0
10	01/10/2012	08:05	0.0	0.0	0.0
11	01/10/2012	08:06	0.0	0.0	0.0
12	01/10/2012	08:07	0.0	0.0	0.0
13	01/10/2012	08:08	0.0	0.0	0.0
14	01/10/2012	08:09	0.0	0.0	0.0
15	01/10/2012	08:10	0.0	0.0	0.0
16	01/10/2012	08:11	0.0	0.0	0.0
17	01/10/2012	08:12	0.0	0.0	0.0
18	01/10/2012	08:13	0.0	0.0	0.0
19	01/10/2012	08:14	0.0	0.0	0.0
20	01/10/2012	08:15	0.0	0.0	0.0
21	01/10/2012	08:16	0.0	0.0	0.0
22	01/10/2012	08:17	0.0	0.0	0.0
23	01/10/2012	08:18	0.0	0.0	0.0
24	01/10/2012	08:19	0.0	0.0	0.0
25	01/10/2012	08:20	0.0	0.0	0.0
26	01/10/2012	08:21	0.0	0.0	0.0
27	01/10/2012	08:22	0.0	0.0	0.0
28	01/10/2012	08:23	0.0	0.0	0.0
29	01/10/2012	08:24	0.0	0.0	0.0
30	01/10/2012	08:25	0.0	0.0	0.0
31	01/10/2012	08:26	0.0	0.0	0.0
32	01/10/2012	08:27	0.0	0.0	0.0
33	01/10/2012	08:28	0.0	0.0	0.0
34	01/10/2012	08:29	0.0	0.0	0.0
35	01/10/2012	08:30	0.0	0.0	0.0
36	01/10/2012	08:31	0.0	0.0	0.0
37	01/10/2012	08:32	0.0	0.0	0.0
38	01/10/2012	08:33	0.0	0.0	0.0
39	01/10/2012	08:34	0.0	0.0	0.0
40	01/10/2012	08:35	0.0	0.0	0.0
41	01/10/2012	08:36	0.0	0.0	0.0
42	01/10/2012	08:37	0.0	0.0	0.0
43	01/10/2012	08:38	0.0	0.0	0.0
44	01/10/2012	08:39	0.0	0.0	0.0
45	01/10/2012	08:40	0.0	0.0	0.0
46	01/10/2012	08:41	0.0	0.0	0.0
47	01/10/2012	08:42	0.0	0.0	0.0
48	01/10/2012	08:43	0.0	0.0	0.0
49	01/10/2012	08:44	0.0	0.0	0.0
50	01/10/2012	08:45	0.0	0.0	0.0
51	01/10/2012	08:46	0.0	0.0	0.0
52	01/10/2012	08:47	0.0	0.0	0.0
53	01/10/2012	08:48	0.0	0.0	0.0
54	01/10/2012	08:49	0.0	0.0	0.0
55	01/10/2012	08:50	0.0	0.0	0.0
56	01/10/2012	08:51	0.0	0.0	0.0
57	01/10/2012	08:52	0.0	0.0	0.0
58	01/10/2012	08:53	0.0	0.0	0.0

59	01/10/2012 08:54	0.0	0.0	0.0
60	01/10/2012 08:55	0.0	0.0	0.0
61	01/10/2012 08:56	0.0	0.0	0.0

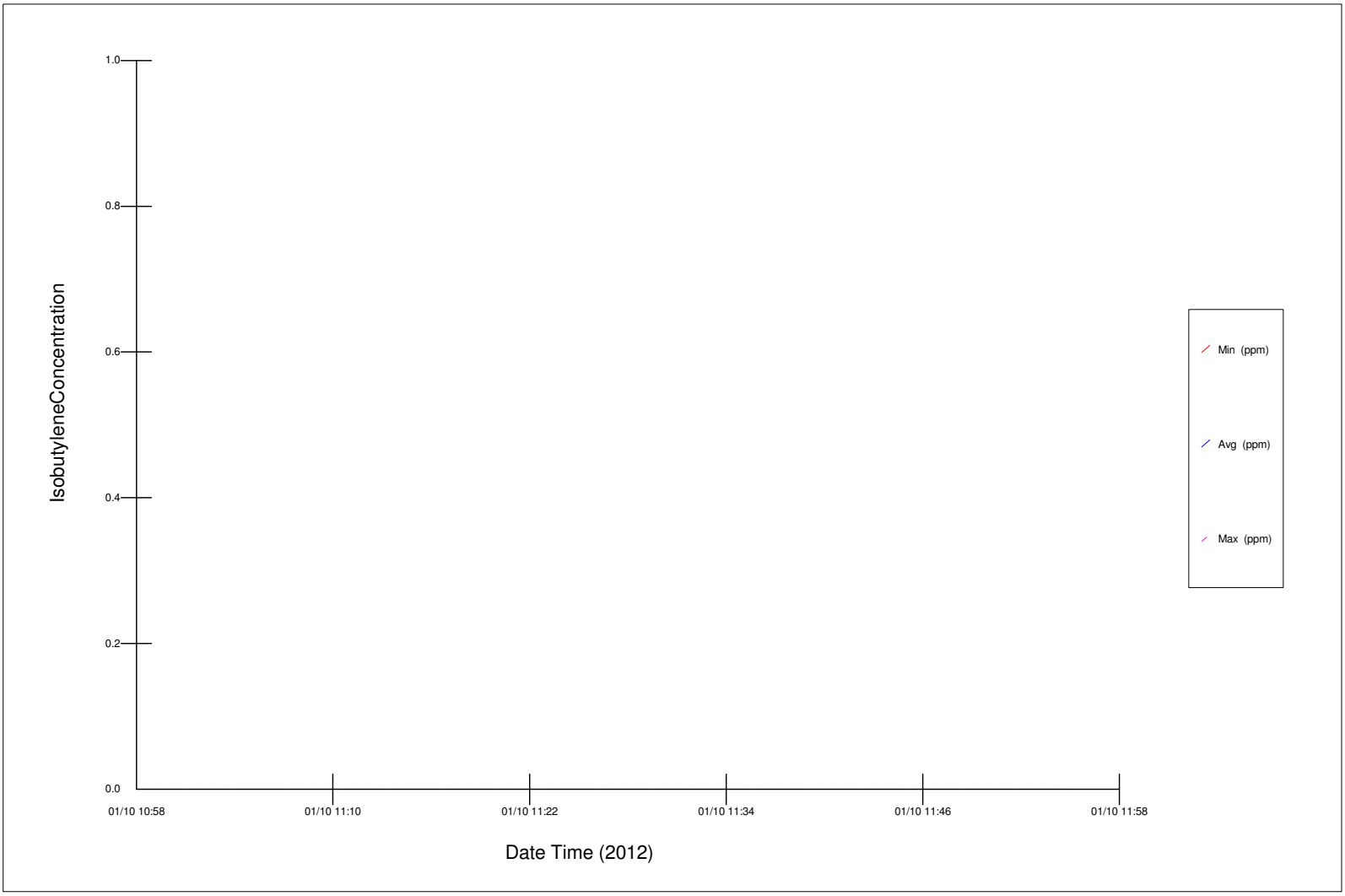

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 08:59
01/10 09:23
01/10 09:47
01/10 10:11
01/10 10:35
01/10 10:59
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000019
Data Points: 116 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	08:59	0.0	0.0	0.0
2	01/10/2012	09:00	0.0	0.0	0.0
3	01/10/2012	09:01	0.0	0.0	0.0
4	01/10/2012	09:02	0.0	0.0	0.0
5	01/10/2012	09:03	0.0	0.0	0.0
6	01/10/2012	09:04	0.0	0.0	0.0
7	01/10/2012	09:05	0.0	0.0	0.0
8	01/10/2012	09:06	0.0	0.0	0.0
9	01/10/2012	09:07	0.0	0.0	0.0
10	01/10/2012	09:08	0.0	0.0	0.0
11	01/10/2012	09:09	0.0	0.0	0.0
12	01/10/2012	09:10	0.0	0.0	0.0
13	01/10/2012	09:11	0.0	0.0	0.0
14	01/10/2012	09:12	0.0	0.0	0.0
15	01/10/2012	09:13	0.0	0.0	0.0
16	01/10/2012	09:14	0.0	0.0	0.0
17	01/10/2012	09:15	0.0	0.0	0.0
18	01/10/2012	09:16	0.0	0.0	0.0
19	01/10/2012	09:17	0.0	0.0	0.0
20	01/10/2012	09:18	0.0	0.0	0.0
21	01/10/2012	09:19	0.0	0.0	0.0
22	01/10/2012	09:20	0.0	0.0	0.0
23	01/10/2012	09:21	0.0	0.0	0.0
24	01/10/2012	09:22	0.0	0.0	0.0
25	01/10/2012	09:23	0.0	0.0	0.0
26	01/10/2012	09:24	0.0	0.0	0.0
27	01/10/2012	09:25	0.0	0.0	0.0
28	01/10/2012	09:26	0.0	0.0	0.0
29	01/10/2012	09:27	0.0	0.0	0.0
30	01/10/2012	09:28	0.0	0.0	0.0
31	01/10/2012	09:29	0.0	0.0	0.0
32	01/10/2012	09:30	0.0	0.0	0.0
33	01/10/2012	09:31	0.0	0.0	0.0
34	01/10/2012	09:32	0.0	0.0	0.0
35	01/10/2012	09:33	0.0	0.0	0.0
36	01/10/2012	09:34	0.0	0.0	0.0
37	01/10/2012	09:35	0.0	0.0	0.0
38	01/10/2012	09:36	0.0	0.0	0.0
39	01/10/2012	09:37	0.0	0.0	0.0
40	01/10/2012	09:38	0.0	0.0	0.0
41	01/10/2012	09:39	0.0	0.0	0.0
42	01/10/2012	09:40	0.0	0.0	0.0
43	01/10/2012	09:41	0.0	0.0	0.0
44	01/10/2012	09:42	0.0	0.0	0.0
45	01/10/2012	09:43	0.0	0.0	0.0
46	01/10/2012	09:44	0.0	0.0	0.0
47	01/10/2012	09:45	0.0	0.0	0.0
48	01/10/2012	09:46	0.0	0.0	0.0
49	01/10/2012	09:47	0.0	0.0	0.0
50	01/10/2012	09:48	0.0	0.0	0.0
51	01/10/2012	09:49	0.0	0.0	0.0
52	01/10/2012	09:50	0.0	0.0	0.0
53	01/10/2012	09:51	0.0	0.0	0.0
54	01/10/2012	09:52	0.0	0.0	0.0
55	01/10/2012	09:53	0.0	0.0	0.0
56	01/10/2012	09:54	0.0	0.0	0.0
57	01/10/2012	09:55	0.0	0.0	0.0
58	01/10/2012	09:56	0.0	0.0	0.0

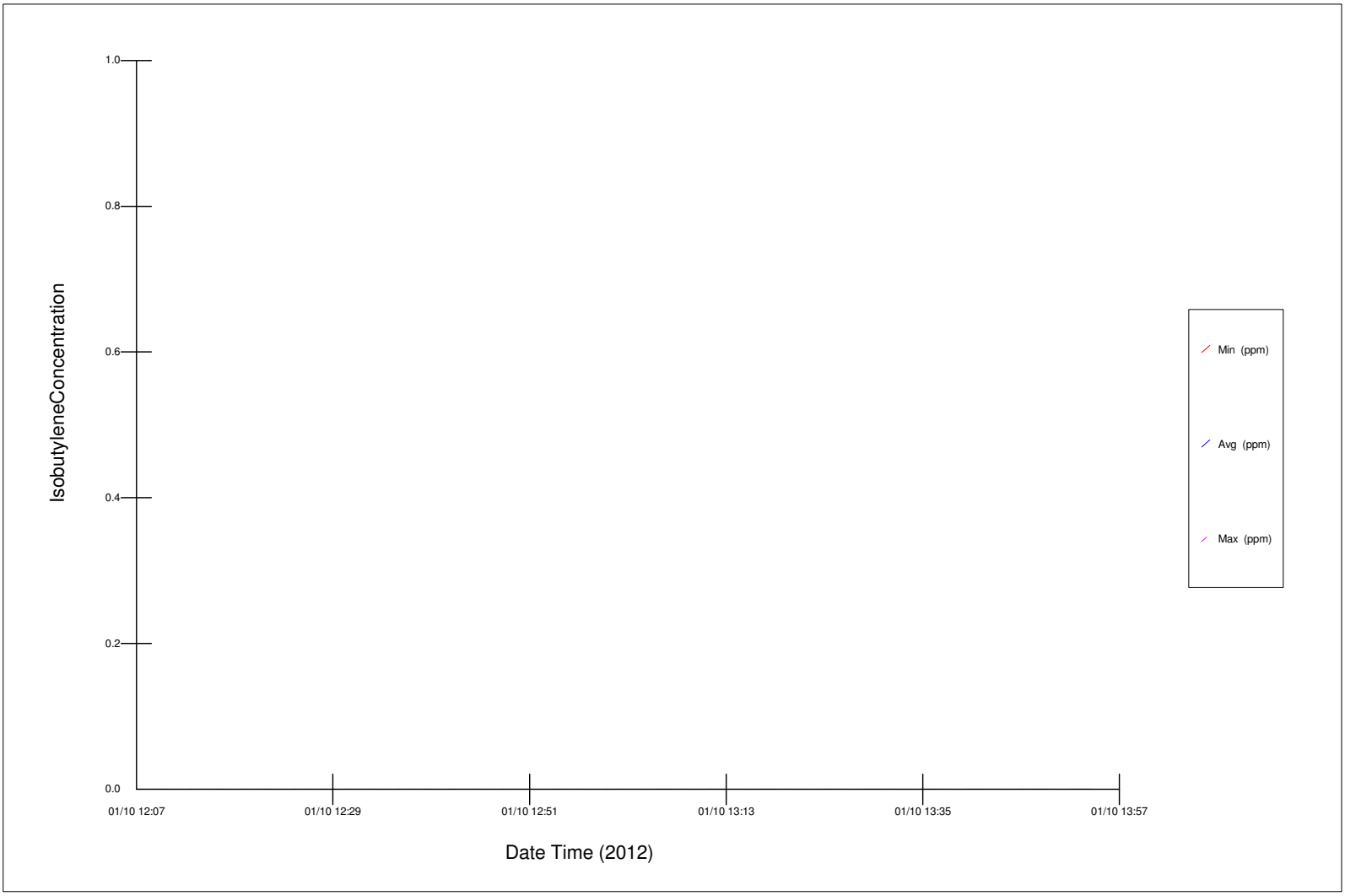
59	01/10/2012 09:57	0.0	0.0	0.0
60	01/10/2012 09:58	0.0	0.0	0.0
61	01/10/2012 09:59	0.0	0.0	0.0
62	01/10/2012 10:00	0.0	0.0	0.0
63	01/10/2012 10:01	0.0	0.0	0.0
64	01/10/2012 10:02	0.0	0.0	0.0
65	01/10/2012 10:03	0.0	0.0	0.0
66	01/10/2012 10:04	0.0	0.0	0.0
67	01/10/2012 10:05	0.0	0.0	0.0
68	01/10/2012 10:06	0.0	0.0	0.0
69	01/10/2012 10:07	0.0	0.0	0.0
70	01/10/2012 10:08	0.0	0.0	0.0
71	01/10/2012 10:09	0.0	0.0	0.0
72	01/10/2012 10:10	0.0	0.0	0.0
73	01/10/2012 10:11	0.0	0.0	0.0
74	01/10/2012 10:12	0.0	0.0	0.0
75	01/10/2012 10:13	0.0	0.0	0.0
76	01/10/2012 10:14	0.0	0.0	0.0
77	01/10/2012 10:15	0.0	0.0	0.0
78	01/10/2012 10:16	0.0	0.0	0.0
79	01/10/2012 10:17	0.0	0.0	0.0
80	01/10/2012 10:18	0.0	0.0	0.0
81	01/10/2012 10:19	0.0	0.0	0.0
82	01/10/2012 10:20	0.0	0.0	0.0
83	01/10/2012 10:21	0.0	0.0	0.0
84	01/10/2012 10:22	0.0	0.0	0.0
85	01/10/2012 10:23	0.0	0.0	0.0
86	01/10/2012 10:24	0.0	0.0	0.0
87	01/10/2012 10:25	0.0	0.0	0.0
88	01/10/2012 10:26	0.0	0.0	0.0
89	01/10/2012 10:27	0.0	0.0	0.0
90	01/10/2012 10:28	0.0	0.0	0.0
91	01/10/2012 10:29	0.0	0.0	0.0
92	01/10/2012 10:30	0.0	0.0	0.0
93	01/10/2012 10:31	0.0	0.0	0.0
94	01/10/2012 10:32	0.0	0.0	0.0
95	01/10/2012 10:33	0.0	0.0	0.0
96	01/10/2012 10:34	0.0	0.0	0.0
97	01/10/2012 10:35	0.0	0.0	0.0
98	01/10/2012 10:36	0.0	0.0	0.0
99	01/10/2012 10:37	0.0	0.0	0.0
100	01/10/2012 10:38	0.0	0.0	0.0
101	01/10/2012 10:39	0.0	0.0	0.0
102	01/10/2012 10:40	0.0	0.0	0.0
103	01/10/2012 10:41	0.0	0.0	0.0
104	01/10/2012 10:42	0.0	0.0	0.0
105	01/10/2012 10:43	0.0	0.0	0.0
106	01/10/2012 10:44	0.0	0.0	0.0
107	01/10/2012 10:45	0.0	0.0	0.0
108	01/10/2012 10:46	0.0	0.0	0.0
109	01/10/2012 10:47	0.0	0.0	0.0
110	01/10/2012 10:48	0.0	0.0	0.0
111	01/10/2012 10:49	0.0	0.0	0.0
112	01/10/2012 10:50	0.0	0.0	0.0
113	01/10/2012 10:51	0.0	0.0	0.0
114	01/10/2012 10:52	0.0	0.0	0.0
115	01/10/2012 10:53	0.0	0.0	0.0
116	01/10/2012 10:54	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/10 10:58
01/10 11:10
01/10 11:22
01/10 11:34
01/10 11:46
01/10 11:58
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000020
Data Points: 58 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	10:58	0.0	0.0	0.0
2	01/10/2012	10:59	0.0	0.0	0.0
3	01/10/2012	11:00	0.0	0.0	0.0
4	01/10/2012	11:01	0.0	0.0	0.0
5	01/10/2012	11:02	0.0	0.0	0.0
6	01/10/2012	11:03	0.0	0.0	0.0
7	01/10/2012	11:04	0.0	0.0	0.0
8	01/10/2012	11:05	0.0	0.0	0.0
9	01/10/2012	11:06	0.0	0.0	0.0
10	01/10/2012	11:07	0.0	0.0	0.0
11	01/10/2012	11:08	0.0	0.0	0.0
12	01/10/2012	11:09	0.0	0.0	0.0
13	01/10/2012	11:10	0.0	0.0	0.0
14	01/10/2012	11:11	0.0	0.0	0.0
15	01/10/2012	11:12	0.0	0.0	0.0
16	01/10/2012	11:13	0.0	0.0	0.0
17	01/10/2012	11:14	0.0	0.0	0.0
18	01/10/2012	11:15	0.0	0.0	0.0
19	01/10/2012	11:16	0.0	0.0	0.0
20	01/10/2012	11:17	0.0	0.0	0.0
21	01/10/2012	11:18	0.0	0.0	0.0
22	01/10/2012	11:19	0.0	0.0	0.0
23	01/10/2012	11:20	0.0	0.0	0.0
24	01/10/2012	11:21	0.0	0.0	0.0
25	01/10/2012	11:22	0.0	0.0	0.0
26	01/10/2012	11:23	0.0	0.0	0.0
27	01/10/2012	11:24	0.0	0.0	0.0
28	01/10/2012	11:25	0.0	0.0	0.0
29	01/10/2012	11:26	0.0	0.0	0.0
30	01/10/2012	11:27	0.0	0.0	0.0
31	01/10/2012	11:28	0.0	0.0	0.0
32	01/10/2012	11:29	0.0	0.0	0.0
33	01/10/2012	11:30	0.0	0.0	0.0
34	01/10/2012	11:31	0.0	0.0	0.0
35	01/10/2012	11:32	0.0	0.0	0.0
36	01/10/2012	11:33	0.0	0.0	0.0
37	01/10/2012	11:34	0.0	0.0	0.0
38	01/10/2012	11:35	0.0	0.0	0.0
39	01/10/2012	11:36	0.0	0.0	0.0
40	01/10/2012	11:37	0.0	0.0	0.0
41	01/10/2012	11:38	0.0	0.0	0.0
42	01/10/2012	11:39	0.0	0.0	0.0
43	01/10/2012	11:40	0.0	0.0	0.0
44	01/10/2012	11:41	0.0	0.0	0.0
45	01/10/2012	11:42	0.0	0.0	0.0
46	01/10/2012	11:43	0.0	0.0	0.0
47	01/10/2012	11:44	0.0	0.0	0.0
48	01/10/2012	11:45	0.0	0.0	0.0
49	01/10/2012	11:46	0.0	0.0	0.0
50	01/10/2012	11:47	0.0	0.0	0.0
51	01/10/2012	11:48	0.0	0.0	0.0
52	01/10/2012	11:49	0.0	0.0	0.0
53	01/10/2012	11:50	0.0	0.0	0.0
54	01/10/2012	11:51	0.0	0.0	0.0
55	01/10/2012	11:52	0.0	0.0	0.0
56	01/10/2012	11:53	0.0	0.0	0.0
57	01/10/2012	11:54	0.0	0.0	0.0
58	01/10/2012	11:55	0.0	0.0	0.0

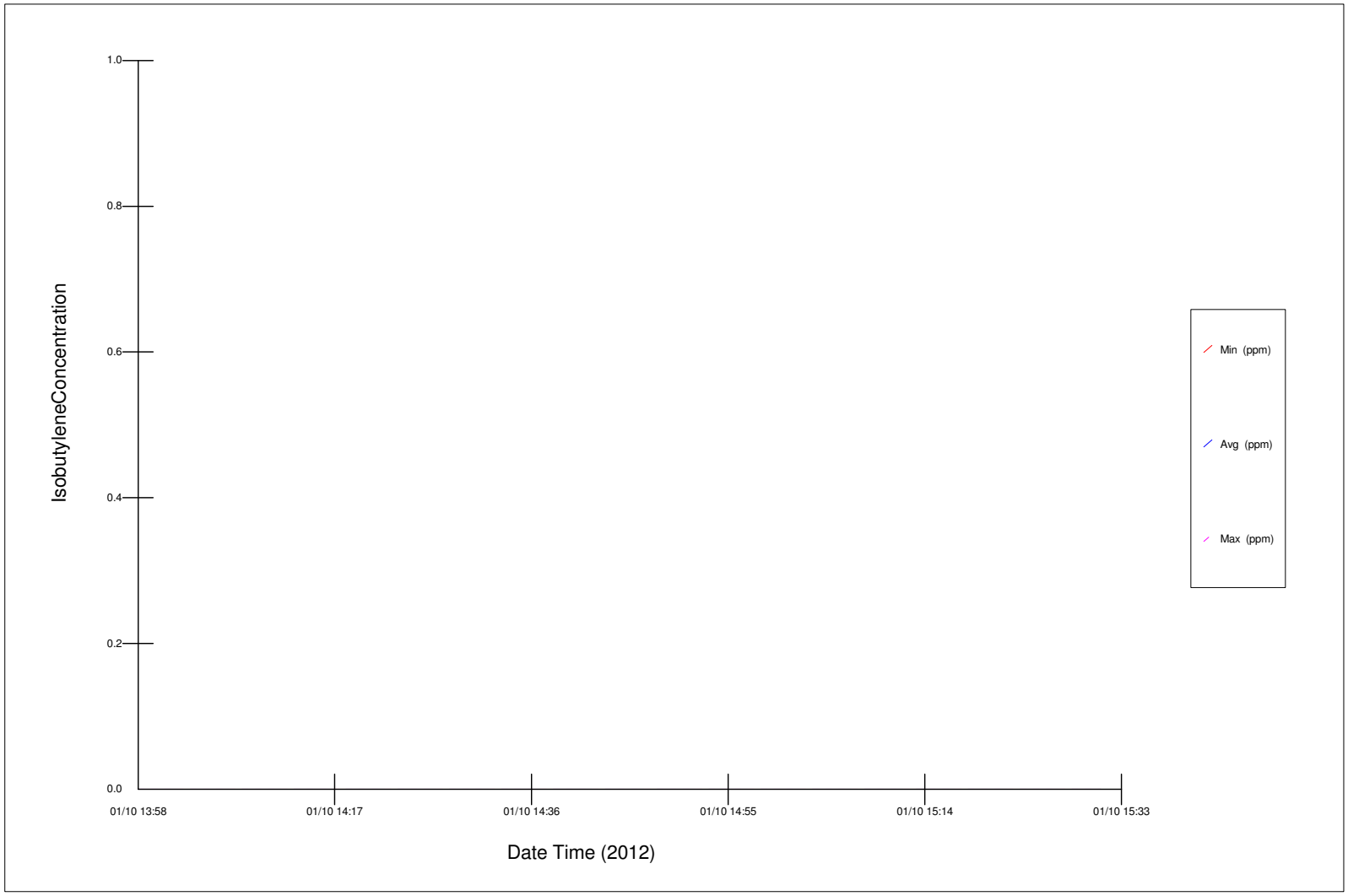

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 12:07
01/10 12:29
01/10 12:51
01/10 13:13
01/10 13:35
01/10 13:57
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000021
Data Points: 108 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	12:07	0.0	0.0	0.0
2	01/10/2012	12:08	0.0	0.0	0.0
3	01/10/2012	12:09	0.0	0.0	0.0
4	01/10/2012	12:10	0.0	0.0	0.0
5	01/10/2012	12:11	0.0	0.0	0.0
6	01/10/2012	12:12	0.0	0.0	0.0
7	01/10/2012	12:13	0.0	0.0	0.0
8	01/10/2012	12:14	0.0	0.0	0.0
9	01/10/2012	12:15	0.0	0.0	0.0
10	01/10/2012	12:16	0.0	0.0	0.0
11	01/10/2012	12:17	0.0	0.0	0.0
12	01/10/2012	12:18	0.0	0.0	0.0
13	01/10/2012	12:19	0.0	0.0	0.0
14	01/10/2012	12:20	0.0	0.0	0.0
15	01/10/2012	12:21	0.0	0.0	0.0
16	01/10/2012	12:22	0.0	0.0	0.0
17	01/10/2012	12:23	0.0	0.0	0.0
18	01/10/2012	12:24	0.0	0.0	0.0
19	01/10/2012	12:25	0.0	0.0	0.0
20	01/10/2012	12:26	0.0	0.0	0.0
21	01/10/2012	12:27	0.0	0.0	0.0
22	01/10/2012	12:28	0.0	0.0	0.0
23	01/10/2012	12:29	0.0	0.0	0.0
24	01/10/2012	12:30	0.0	0.0	0.0
25	01/10/2012	12:31	0.0	0.0	0.0
26	01/10/2012	12:32	0.0	0.0	0.0
27	01/10/2012	12:33	0.0	0.0	0.0
28	01/10/2012	12:34	0.0	0.0	0.0
29	01/10/2012	12:35	0.0	0.0	0.0
30	01/10/2012	12:36	0.0	0.0	0.0
31	01/10/2012	12:37	0.0	0.0	0.0
32	01/10/2012	12:38	0.0	0.0	0.0
33	01/10/2012	12:39	0.0	0.0	0.0
34	01/10/2012	12:40	0.0	0.0	0.0
35	01/10/2012	12:41	0.0	0.0	0.0
36	01/10/2012	12:42	0.0	0.0	0.0
37	01/10/2012	12:43	0.0	0.0	0.0
38	01/10/2012	12:44	0.0	0.0	0.0
39	01/10/2012	12:45	0.0	0.0	0.0
40	01/10/2012	12:46	0.0	0.0	0.0
41	01/10/2012	12:47	0.0	0.0	0.0
42	01/10/2012	12:48	0.0	0.0	0.0
43	01/10/2012	12:49	0.0	0.0	0.0
44	01/10/2012	12:50	0.0	0.0	0.0
45	01/10/2012	12:51	0.0	0.0	0.0
46	01/10/2012	12:52	0.0	0.0	0.0
47	01/10/2012	12:53	0.0	0.0	0.0
48	01/10/2012	12:54	0.0	0.0	0.0
49	01/10/2012	12:55	0.0	0.0	0.0
50	01/10/2012	12:56	0.0	0.0	0.0
51	01/10/2012	12:57	0.0	0.0	0.0
52	01/10/2012	12:58	0.0	0.0	0.0
53	01/10/2012	12:59	0.0	0.0	0.0
54	01/10/2012	13:00	0.0	0.0	0.0
55	01/10/2012	13:01	0.0	0.0	0.0
56	01/10/2012	13:02	0.0	0.0	0.0
57	01/10/2012	13:03	0.0	0.0	0.0
58	01/10/2012	13:04	0.0	0.0	0.0

59	01/10/2012 13:05	0.0	0.0	0.0
60	01/10/2012 13:06	0.0	0.0	0.0
61	01/10/2012 13:07	0.0	0.0	0.0
62	01/10/2012 13:08	0.0	0.0	0.0
63	01/10/2012 13:09	0.0	0.0	0.0
64	01/10/2012 13:10	0.0	0.0	0.0
65	01/10/2012 13:11	0.0	0.0	0.0
66	01/10/2012 13:12	0.0	0.0	0.0
67	01/10/2012 13:13	0.0	0.0	0.0
68	01/10/2012 13:14	0.0	0.0	0.0
69	01/10/2012 13:15	0.0	0.0	0.0
70	01/10/2012 13:16	0.0	0.0	0.0
71	01/10/2012 13:17	0.0	0.0	0.0
72	01/10/2012 13:18	0.0	0.0	0.0
73	01/10/2012 13:19	0.0	0.0	0.0
74	01/10/2012 13:20	0.0	0.0	0.0
75	01/10/2012 13:21	0.0	0.0	0.0
76	01/10/2012 13:22	0.0	0.0	0.0
77	01/10/2012 13:23	0.0	0.0	0.0
78	01/10/2012 13:24	0.0	0.0	0.0
79	01/10/2012 13:25	0.0	0.0	0.0
80	01/10/2012 13:26	0.0	0.0	0.0
81	01/10/2012 13:27	0.0	0.0	0.0
82	01/10/2012 13:28	0.0	0.0	0.0
83	01/10/2012 13:29	0.0	0.0	0.0
84	01/10/2012 13:30	0.0	0.0	0.0
85	01/10/2012 13:31	0.0	0.0	0.0
86	01/10/2012 13:32	0.0	0.0	0.0
87	01/10/2012 13:33	0.0	0.0	0.0
88	01/10/2012 13:34	0.0	0.0	0.0
89	01/10/2012 13:35	0.0	0.0	0.0
90	01/10/2012 13:36	0.0	0.0	0.0
91	01/10/2012 13:37	0.0	0.0	0.0
92	01/10/2012 13:38	0.0	0.0	0.0
93	01/10/2012 13:39	0.0	0.0	0.0
94	01/10/2012 13:40	0.0	0.0	0.0
95	01/10/2012 13:41	0.0	0.0	0.0
96	01/10/2012 13:42	0.0	0.0	0.0
97	01/10/2012 13:43	0.0	0.0	0.0
98	01/10/2012 13:44	0.0	0.0	0.0
99	01/10/2012 13:45	0.0	0.0	0.0
100	01/10/2012 13:46	0.0	0.0	0.0
101	01/10/2012 13:47	0.0	0.0	0.0
102	01/10/2012 13:48	0.0	0.0	0.0
103	01/10/2012 13:49	0.0	0.0	0.0
104	01/10/2012 13:50	0.0	0.0	0.0
105	01/10/2012 13:51	0.0	0.0	0.0
106	01/10/2012 13:52	0.0	0.0	0.0
107	01/10/2012 13:53	0.0	0.0	0.0
108	01/10/2012 13:54	0.0	0.0	0.0

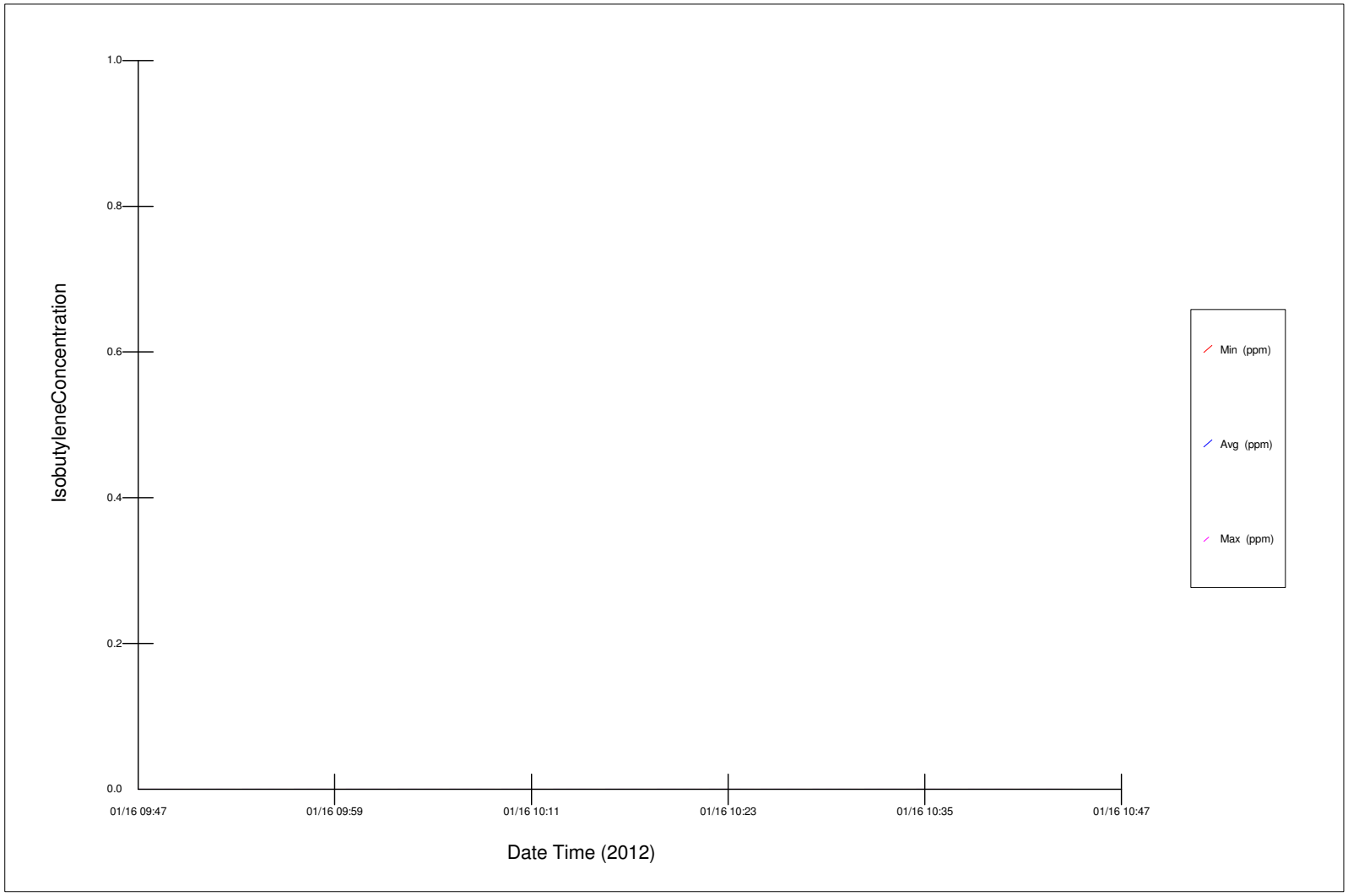

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 13:58
01/10 14:17
01/10 14:36
01/10 14:55
01/10 15:14
01/10 15:33
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000022
Data Points: 94 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	13:58	0.0	0.0	0.0
2	01/10/2012	13:59	0.0	0.0	0.0
3	01/10/2012	14:00	0.0	0.0	0.0
4	01/10/2012	14:01	0.0	0.0	0.0
5	01/10/2012	14:02	0.0	0.0	0.0
6	01/10/2012	14:03	0.0	0.0	0.0
7	01/10/2012	14:04	0.0	0.0	0.0
8	01/10/2012	14:05	0.0	0.0	0.0
9	01/10/2012	14:06	0.0	0.0	0.0
10	01/10/2012	14:07	0.0	0.0	0.0
11	01/10/2012	14:08	0.0	0.0	0.0
12	01/10/2012	14:09	0.0	0.0	0.0
13	01/10/2012	14:10	0.0	0.0	0.0
14	01/10/2012	14:11	0.0	0.0	0.0
15	01/10/2012	14:12	0.0	0.0	0.0
16	01/10/2012	14:13	0.0	0.0	0.0
17	01/10/2012	14:14	0.0	0.0	0.0
18	01/10/2012	14:15	0.0	0.0	0.0
19	01/10/2012	14:16	0.0	0.0	0.0
20	01/10/2012	14:17	0.0	0.0	0.0
21	01/10/2012	14:18	0.0	0.0	0.0
22	01/10/2012	14:19	0.0	0.0	0.0
23	01/10/2012	14:20	0.0	0.0	0.0
24	01/10/2012	14:21	0.0	0.0	0.0
25	01/10/2012	14:22	0.0	0.0	0.0
26	01/10/2012	14:23	0.0	0.0	0.0
27	01/10/2012	14:24	0.0	0.0	0.0
28	01/10/2012	14:25	0.0	0.0	0.0
29	01/10/2012	14:26	0.0	0.0	0.0
30	01/10/2012	14:27	0.0	0.0	0.0
31	01/10/2012	14:28	0.0	0.0	0.0
32	01/10/2012	14:29	0.0	0.0	0.0
33	01/10/2012	14:30	0.0	0.0	0.0
34	01/10/2012	14:31	0.0	0.0	0.0
35	01/10/2012	14:32	0.0	0.0	0.0
36	01/10/2012	14:33	0.0	0.0	0.0
37	01/10/2012	14:34	0.0	0.0	0.0
38	01/10/2012	14:35	0.0	0.0	0.0
39	01/10/2012	14:36	0.0	0.0	0.0
40	01/10/2012	14:37	0.0	0.0	0.0
41	01/10/2012	14:38	0.0	0.0	0.0
42	01/10/2012	14:39	0.0	0.0	0.0
43	01/10/2012	14:40	0.0	0.0	0.0
44	01/10/2012	14:41	0.0	0.0	0.0
45	01/10/2012	14:42	0.0	0.0	0.0
46	01/10/2012	14:43	0.0	0.0	0.0
47	01/10/2012	14:44	0.0	0.0	0.0
48	01/10/2012	14:45	0.0	0.0	0.0
49	01/10/2012	14:46	0.0	0.0	0.0
50	01/10/2012	14:47	0.0	0.0	0.0
51	01/10/2012	14:48	0.0	0.0	0.0
52	01/10/2012	14:49	0.0	0.0	0.0
53	01/10/2012	14:50	0.0	0.0	0.0
54	01/10/2012	14:51	0.0	0.0	0.0
55	01/10/2012	14:52	0.0	0.0	0.0
56	01/10/2012	14:53	0.0	0.0	0.0
57	01/10/2012	14:54	0.0	0.0	0.0
58	01/10/2012	14:55	0.0	0.0	0.0

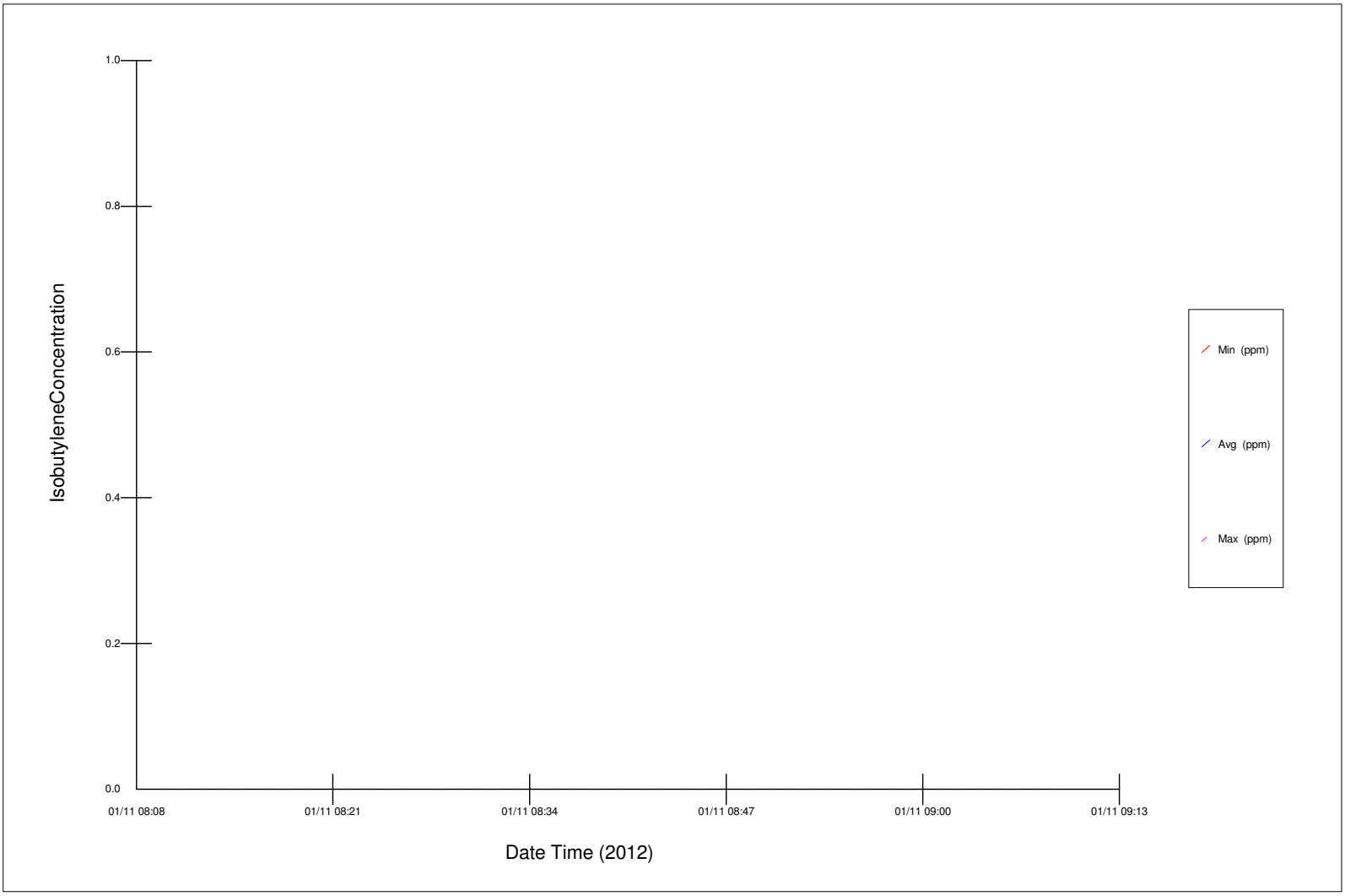
59	01/10/2012 14:56	0.0	0.0	0.0
60	01/10/2012 14:57	0.0	0.0	0.0
61	01/10/2012 14:58	0.0	0.0	0.0
62	01/10/2012 14:59	0.0	0.0	0.0
63	01/10/2012 15:00	0.0	0.0	0.0
64	01/10/2012 15:01	0.0	0.0	0.0
65	01/10/2012 15:02	0.0	0.0	0.0
66	01/10/2012 15:03	0.0	0.0	0.0
67	01/10/2012 15:04	0.0	0.0	0.0
68	01/10/2012 15:05	0.0	0.0	0.0
69	01/10/2012 15:06	0.0	0.0	0.0
70	01/10/2012 15:07	0.0	0.0	0.0
71	01/10/2012 15:08	0.0	0.0	0.0
72	01/10/2012 15:09	0.0	0.0	0.0
73	01/10/2012 15:10	0.0	0.0	0.0
74	01/10/2012 15:11	0.0	0.0	0.0
75	01/10/2012 15:12	0.0	0.0	0.0
76	01/10/2012 15:13	0.0	0.0	0.0
77	01/10/2012 15:14	0.0	0.0	0.0
78	01/10/2012 15:15	0.0	0.0	0.0
79	01/10/2012 15:16	0.0	0.0	0.0
80	01/10/2012 15:17	0.0	0.0	0.0
81	01/10/2012 15:18	0.0	0.0	0.0
82	01/10/2012 15:19	0.0	0.0	0.0
83	01/10/2012 15:20	0.0	0.0	0.0
84	01/10/2012 15:21	0.0	0.0	0.0
85	01/10/2012 15:22	0.0	0.0	0.0
86	01/10/2012 15:23	0.0	0.0	0.0
87	01/10/2012 15:24	0.0	0.0	0.0
88	01/10/2012 15:25	0.0	0.0	0.0
89	01/10/2012 15:26	0.0	0.0	0.0
90	01/10/2012 15:27	0.0	0.0	0.0
91	01/10/2012 15:28	0.0	0.0	0.0
92	01/10/2012 15:29	0.0	0.0	0.0
93	01/10/2012 15:30	0.0	0.0	0.0
94	01/10/2012 15:31	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 09:47
01/16 09:59
01/16 10:11
01/16 10:23
01/16 10:35
01/16 10:47
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000068
Data Points: 58 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	09:47	0.0	0.0	0.0
2	01/16/2012	09:48	0.0	0.0	0.0
3	01/16/2012	09:49	0.0	0.0	0.0
4	01/16/2012	09:50	0.0	0.0	0.0
5	01/16/2012	09:51	0.0	0.0	0.0
6	01/16/2012	09:52	0.0	0.0	0.0
7	01/16/2012	09:53	0.0	0.0	0.0
8	01/16/2012	09:54	0.0	0.0	0.0
9	01/16/2012	09:55	0.0	0.0	0.0
10	01/16/2012	09:56	0.0	0.0	0.0
11	01/16/2012	09:57	0.0	0.0	0.0
12	01/16/2012	09:58	0.0	0.0	0.0
13	01/16/2012	09:59	0.0	0.0	0.0
14	01/16/2012	10:00	0.0	0.0	0.0
15	01/16/2012	10:01	0.0	0.0	0.0
16	01/16/2012	10:02	0.0	0.0	0.0
17	01/16/2012	10:03	0.0	0.0	0.0
18	01/16/2012	10:04	0.0	0.0	0.0
19	01/16/2012	10:05	0.0	0.0	0.0
20	01/16/2012	10:06	0.0	0.0	0.0
21	01/16/2012	10:07	0.0	0.0	0.0
22	01/16/2012	10:08	0.0	0.0	0.0
23	01/16/2012	10:09	0.0	0.0	0.0
24	01/16/2012	10:10	0.0	0.0	0.0
25	01/16/2012	10:11	0.0	0.0	0.0
26	01/16/2012	10:12	0.0	0.0	0.0
27	01/16/2012	10:13	0.0	0.0	0.0
28	01/16/2012	10:14	0.0	0.0	0.0
29	01/16/2012	10:15	0.0	0.0	0.0
30	01/16/2012	10:16	0.0	0.0	0.0
31	01/16/2012	10:17	0.0	0.0	0.0
32	01/16/2012	10:18	0.0	0.0	0.0
33	01/16/2012	10:19	0.0	0.0	0.0
34	01/16/2012	10:20	0.0	0.0	0.0
35	01/16/2012	10:21	0.0	0.0	0.0
36	01/16/2012	10:22	0.0	0.0	0.0
37	01/16/2012	10:23	0.0	0.0	0.0
38	01/16/2012	10:24	0.0	0.0	0.0
39	01/16/2012	10:25	0.0	0.0	0.0
40	01/16/2012	10:26	0.0	0.0	0.0
41	01/16/2012	10:27	0.0	0.0	0.0
42	01/16/2012	10:28	0.0	0.0	0.0
43	01/16/2012	10:29	0.0	0.0	0.0
44	01/16/2012	10:30	0.0	0.0	0.0
45	01/16/2012	10:31	0.0	0.0	0.0
46	01/16/2012	10:32	0.0	0.0	0.0
47	01/16/2012	10:33	0.0	0.0	0.0
48	01/16/2012	10:34	0.0	0.0	0.0
49	01/16/2012	10:35	0.0	0.0	0.0
50	01/16/2012	10:36	0.0	0.0	0.0
51	01/16/2012	10:37	0.0	0.0	0.0
52	01/16/2012	10:38	0.0	0.0	0.0
53	01/16/2012	10:39	0.0	0.0	0.0
54	01/16/2012	10:40	0.0	0.0	0.0
55	01/16/2012	10:41	0.0	0.0	0.0
56	01/16/2012	10:42	0.0	0.0	0.0
57	01/16/2012	10:43	0.0	0.0	0.0
58	01/16/2012	10:44	0.0	0.0	0.0

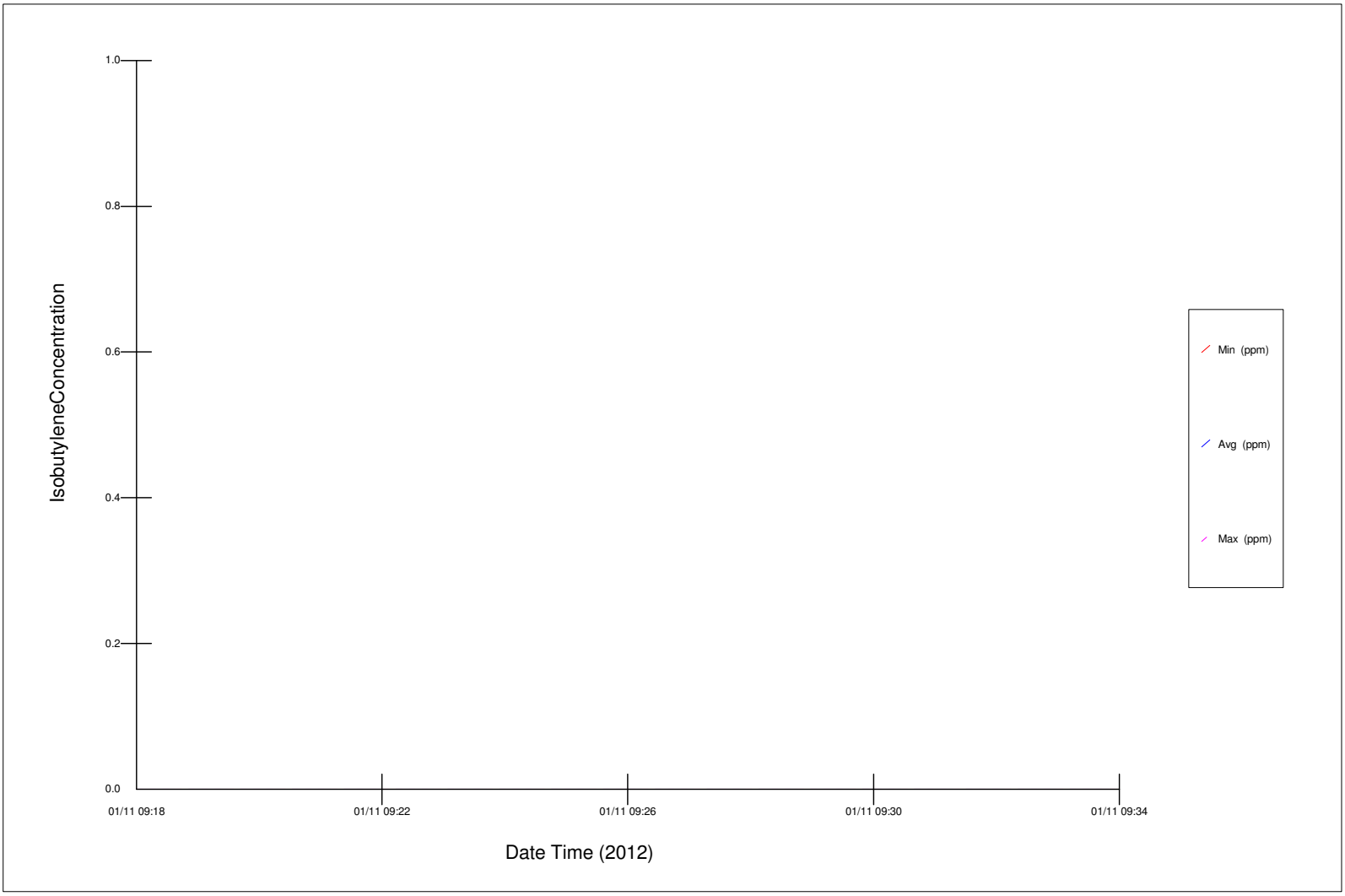

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 08:08
01/11 08:21
01/11 08:34
01/11 08:47
01/11 09:00
01/11 09:13
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000024
Data Points: 62 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	08:08	0.0	0.0	0.0
2	01/11/2012	08:09	0.0	0.0	0.0
3	01/11/2012	08:10	0.0	0.0	0.0
4	01/11/2012	08:11	0.0	0.0	0.0
5	01/11/2012	08:12	0.0	0.0	0.0
6	01/11/2012	08:13	0.0	0.0	0.0
7	01/11/2012	08:14	0.0	0.0	0.0
8	01/11/2012	08:15	0.0	0.0	0.0
9	01/11/2012	08:16	0.0	0.0	0.0
10	01/11/2012	08:17	0.0	0.0	0.0
11	01/11/2012	08:18	0.0	0.0	0.0
12	01/11/2012	08:19	0.0	0.0	0.0
13	01/11/2012	08:20	0.0	0.0	0.0
14	01/11/2012	08:21	0.0	0.0	0.0
15	01/11/2012	08:22	0.0	0.0	0.0
16	01/11/2012	08:23	0.0	0.0	0.0
17	01/11/2012	08:24	0.0	0.0	0.0
18	01/11/2012	08:25	0.0	0.0	0.0
19	01/11/2012	08:26	0.0	0.0	0.0
20	01/11/2012	08:27	0.0	0.0	0.0
21	01/11/2012	08:28	0.0	0.0	0.0
22	01/11/2012	08:29	0.0	0.0	0.0
23	01/11/2012	08:30	0.0	0.0	0.0
24	01/11/2012	08:31	0.0	0.0	0.0
25	01/11/2012	08:32	0.0	0.0	0.0
26	01/11/2012	08:33	0.0	0.0	0.0
27	01/11/2012	08:34	0.0	0.0	0.0
28	01/11/2012	08:35	0.0	0.0	0.0
29	01/11/2012	08:36	0.0	0.0	0.0
30	01/11/2012	08:37	0.0	0.0	0.0
31	01/11/2012	08:38	0.0	0.0	0.0
32	01/11/2012	08:39	0.0	0.0	0.0
33	01/11/2012	08:40	0.0	0.0	0.0
34	01/11/2012	08:41	0.0	0.0	0.0
35	01/11/2012	08:42	0.0	0.0	0.0
36	01/11/2012	08:43	0.0	0.0	0.0
37	01/11/2012	08:44	0.0	0.0	0.0
38	01/11/2012	08:45	0.0	0.0	0.0
39	01/11/2012	08:46	0.0	0.0	0.0
40	01/11/2012	08:47	0.0	0.0	0.0
41	01/11/2012	08:48	0.0	0.0	0.0
42	01/11/2012	08:49	0.0	0.0	0.0
43	01/11/2012	08:50	0.0	0.0	0.0
44	01/11/2012	08:51	0.0	0.0	0.0
45	01/11/2012	08:52	0.0	0.0	0.0
46	01/11/2012	08:53	0.0	0.0	0.0
47	01/11/2012	08:54	0.0	0.0	0.0
48	01/11/2012	08:55	0.0	0.0	0.0
49	01/11/2012	08:56	0.0	0.0	0.0
50	01/11/2012	08:57	0.0	0.0	0.0
51	01/11/2012	08:58	0.0	0.0	0.0
52	01/11/2012	08:59	0.0	0.0	0.0
53	01/11/2012	09:00	0.0	0.0	0.0
54	01/11/2012	09:01	0.0	0.0	0.0
55	01/11/2012	09:02	0.0	0.0	0.0
56	01/11/2012	09:03	0.0	0.0	0.0
57	01/11/2012	09:04	0.0	0.0	0.0
58	01/11/2012	09:05	0.0	0.0	0.0

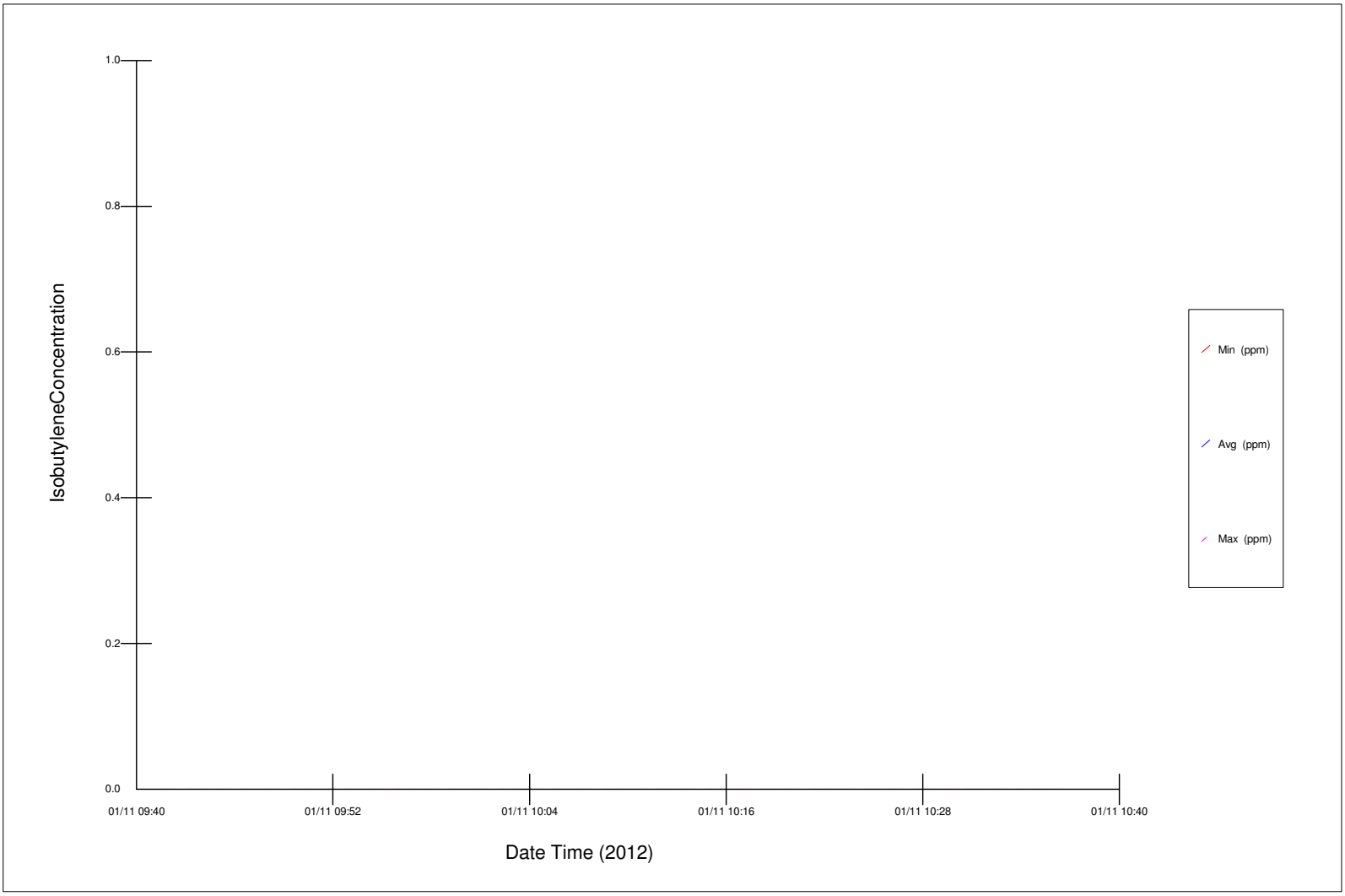
59	01/11/2012 09:06	0.0	0.0	0.0
60	01/11/2012 09:07	0.0	0.0	0.0
61	01/11/2012 09:08	0.0	0.0	0.0
62	01/11/2012 09:09	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 09:18
01/11 09:22
01/11 09:26
01/11 09:30
01/11 09:34
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000025
Data Points: 17 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

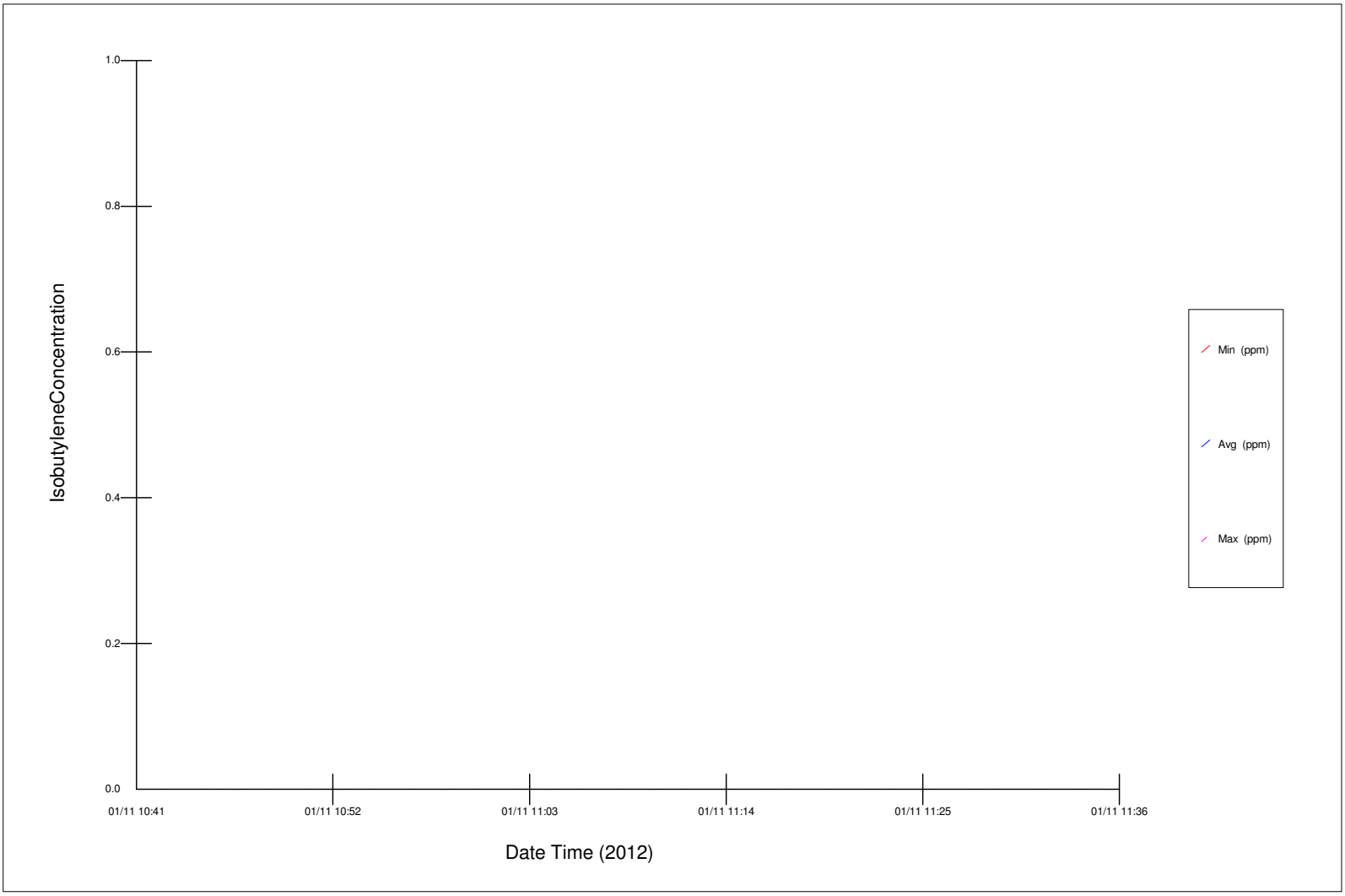
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	09:18	0.0	0.0	0.0
2	01/11/2012	09:19	0.0	0.0	0.0
3	01/11/2012	09:20	0.0	0.0	0.0
4	01/11/2012	09:21	0.0	0.0	0.0
5	01/11/2012	09:22	0.0	0.0	0.0
6	01/11/2012	09:23	0.0	0.0	0.0
7	01/11/2012	09:24	0.0	0.0	0.0
8	01/11/2012	09:25	0.0	0.0	0.0
9	01/11/2012	09:26	0.0	0.0	0.0
10	01/11/2012	09:27	0.0	0.0	0.0
11	01/11/2012	09:28	0.0	0.0	0.0
12	01/11/2012	09:29	0.0	0.0	0.0
13	01/11/2012	09:30	0.0	0.0	0.0
14	01/11/2012	09:31	0.0	0.0	0.0
15	01/11/2012	09:32	0.0	0.0	0.0
16	01/11/2012	09:33	0.0	0.0	0.0
17	01/11/2012	09:34	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 09:40
01/11 09:52
01/11 10:04
01/11 10:16
01/11 10:28
01/11 10:40
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000026
Data Points: 58 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

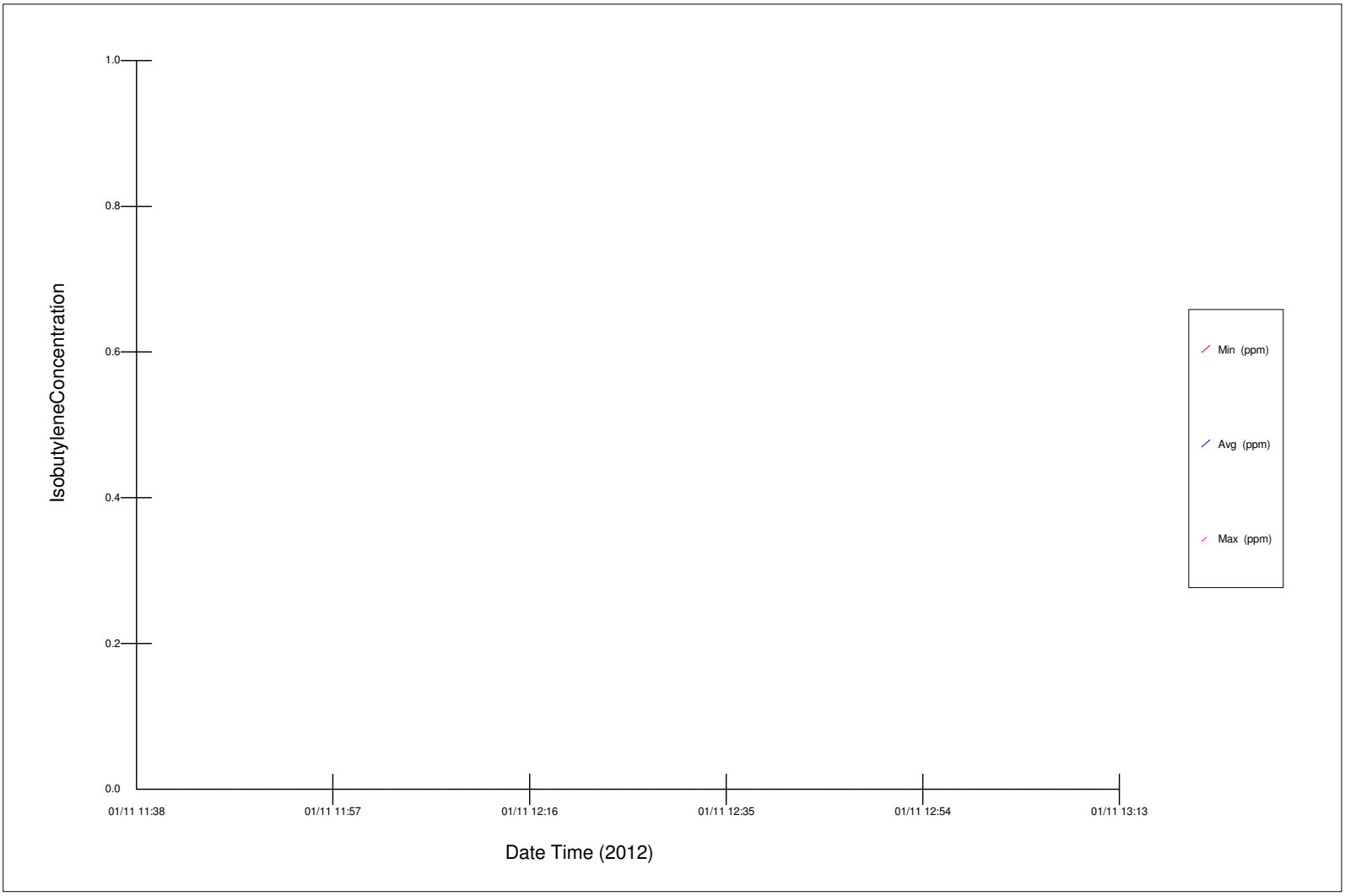
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	09:40	0.0	0.0	0.0
2	01/11/2012	09:41	0.0	0.0	0.0
3	01/11/2012	09:42	0.0	0.0	0.0
4	01/11/2012	09:43	0.0	0.0	0.0
5	01/11/2012	09:44	0.0	0.0	0.0
6	01/11/2012	09:45	0.0	0.0	0.0
7	01/11/2012	09:46	0.0	0.0	0.0
8	01/11/2012	09:47	0.0	0.0	0.0
9	01/11/2012	09:48	0.0	0.0	0.0
10	01/11/2012	09:49	0.0	0.0	0.0
11	01/11/2012	09:50	0.0	0.0	0.0
12	01/11/2012	09:51	0.0	0.0	0.0
13	01/11/2012	09:52	0.0	0.0	0.0
14	01/11/2012	09:53	0.0	0.0	0.0
15	01/11/2012	09:54	0.0	0.0	0.0
16	01/11/2012	09:55	0.0	0.0	0.0
17	01/11/2012	09:56	0.0	0.0	0.0
18	01/11/2012	09:57	0.0	0.0	0.0
19	01/11/2012	09:58	0.0	0.0	0.0
20	01/11/2012	09:59	0.0	0.0	0.0
21	01/11/2012	10:00	0.0	0.0	0.0
22	01/11/2012	10:01	0.0	0.0	0.0
23	01/11/2012	10:02	0.0	0.0	0.0
24	01/11/2012	10:03	0.0	0.0	0.0
25	01/11/2012	10:04	0.0	0.0	0.0
26	01/11/2012	10:05	0.0	0.0	0.0
27	01/11/2012	10:06	0.0	0.0	0.0
28	01/11/2012	10:07	0.0	0.0	0.0
29	01/11/2012	10:08	0.0	0.0	0.0
30	01/11/2012	10:09	0.0	0.0	0.0
31	01/11/2012	10:10	0.0	0.0	0.0
32	01/11/2012	10:11	0.0	0.0	0.0
33	01/11/2012	10:12	0.0	0.0	0.0
34	01/11/2012	10:13	0.0	0.0	0.0
35	01/11/2012	10:14	0.0	0.0	0.0
36	01/11/2012	10:15	0.0	0.0	0.0
37	01/11/2012	10:16	0.0	0.0	0.0
38	01/11/2012	10:17	0.0	0.0	0.0
39	01/11/2012	10:18	0.0	0.0	0.0
40	01/11/2012	10:19	0.0	0.0	0.0
41	01/11/2012	10:20	0.0	0.0	0.0
42	01/11/2012	10:21	0.0	0.0	0.0
43	01/11/2012	10:22	0.0	0.0	0.0
44	01/11/2012	10:23	0.0	0.0	0.0
45	01/11/2012	10:24	0.0	0.0	0.0
46	01/11/2012	10:25	0.0	0.0	0.0
47	01/11/2012	10:26	0.0	0.0	0.0
48	01/11/2012	10:27	0.0	0.0	0.0
49	01/11/2012	10:28	0.0	0.0	0.0
50	01/11/2012	10:29	0.0	0.0	0.0
51	01/11/2012	10:30	0.0	0.0	0.0
52	01/11/2012	10:31	0.0	0.0	0.0
53	01/11/2012	10:32	0.0	0.0	0.0
54	01/11/2012	10:33	0.0	0.0	0.0
55	01/11/2012	10:34	0.0	0.0	0.0
56	01/11/2012	10:35	0.0	0.0	0.0
57	01/11/2012	10:36	0.0	0.0	0.0
58	01/11/2012	10:37	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/11 10:41
01/11 10:52
01/11 11:03
01/11 11:14
01/11 11:25
01/11 11:36
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000027
Data Points: 55 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	10:41	0.0	0.0	0.0
2	01/11/2012	10:42	0.0	0.0	0.0
3	01/11/2012	10:43	0.0	0.0	0.0
4	01/11/2012	10:44	0.0	0.0	0.0
5	01/11/2012	10:45	0.0	0.0	0.0
6	01/11/2012	10:46	0.0	0.0	0.0
7	01/11/2012	10:47	0.0	0.0	0.0
8	01/11/2012	10:48	0.0	0.0	0.0
9	01/11/2012	10:49	0.0	0.0	0.0
10	01/11/2012	10:50	0.0	0.0	0.0
11	01/11/2012	10:51	0.0	0.0	0.0
12	01/11/2012	10:52	0.0	0.0	0.0
13	01/11/2012	10:53	0.0	0.0	0.0
14	01/11/2012	10:54	0.0	0.0	0.0
15	01/11/2012	10:55	0.0	0.0	0.0
16	01/11/2012	10:56	0.0	0.0	0.0
17	01/11/2012	10:57	0.0	0.0	0.0
18	01/11/2012	10:58	0.0	0.0	0.0
19	01/11/2012	10:59	0.0	0.0	0.0
20	01/11/2012	11:00	0.0	0.0	0.0
21	01/11/2012	11:01	0.0	0.0	0.0
22	01/11/2012	11:02	0.0	0.0	0.0
23	01/11/2012	11:03	0.0	0.0	0.0
24	01/11/2012	11:04	0.0	0.0	0.0
25	01/11/2012	11:05	0.0	0.0	0.0
26	01/11/2012	11:06	0.0	0.0	0.0
27	01/11/2012	11:07	0.0	0.0	0.0
28	01/11/2012	11:08	0.0	0.0	0.0
29	01/11/2012	11:09	0.0	0.0	0.0
30	01/11/2012	11:10	0.0	0.0	0.0
31	01/11/2012	11:11	0.0	0.0	0.0
32	01/11/2012	11:12	0.0	0.0	0.0
33	01/11/2012	11:13	0.0	0.0	0.0
34	01/11/2012	11:14	0.0	0.0	0.0
35	01/11/2012	11:15	0.0	0.0	0.0
36	01/11/2012	11:16	0.0	0.0	0.0
37	01/11/2012	11:17	0.0	0.0	0.0
38	01/11/2012	11:18	0.0	0.0	0.0
39	01/11/2012	11:19	0.0	0.0	0.0
40	01/11/2012	11:20	0.0	0.0	0.0
41	01/11/2012	11:21	0.0	0.0	0.0
42	01/11/2012	11:22	0.0	0.0	0.0
43	01/11/2012	11:23	0.0	0.0	0.0
44	01/11/2012	11:24	0.0	0.0	0.0
45	01/11/2012	11:25	0.0	0.0	0.0
46	01/11/2012	11:26	0.0	0.0	0.0
47	01/11/2012	11:27	0.0	0.0	0.0
48	01/11/2012	11:28	0.0	0.0	0.0
49	01/11/2012	11:29	0.0	0.0	0.0
50	01/11/2012	11:30	0.0	0.0	0.0
51	01/11/2012	11:31	0.0	0.0	0.0
52	01/11/2012	11:32	0.0	0.0	0.0
53	01/11/2012	11:33	0.0	0.0	0.0
54	01/11/2012	11:34	0.0	0.0	0.0
55	01/11/2012	11:35	0.0	0.0	0.0

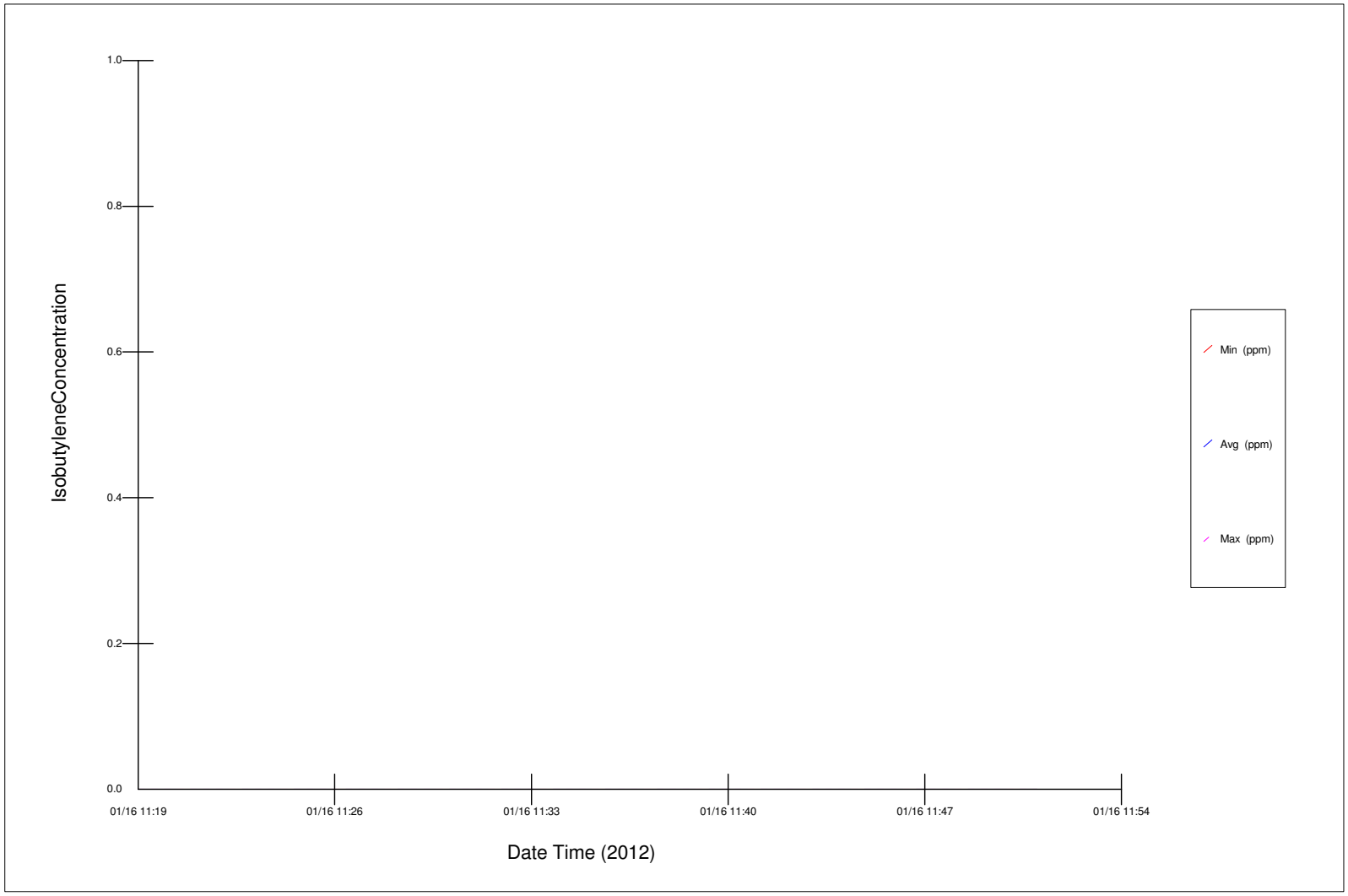

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 11:38
01/11 11:57
01/11 12:16
01/11 12:35
01/11 12:54
01/11 13:13
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000028
Data Points: 94 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	11:38	0.0	0.0	0.0
2	01/11/2012	11:39	0.0	0.0	0.0
3	01/11/2012	11:40	0.0	0.0	0.0
4	01/11/2012	11:41	0.0	0.0	0.0
5	01/11/2012	11:42	0.0	0.0	0.0
6	01/11/2012	11:43	0.0	0.0	0.0
7	01/11/2012	11:44	0.0	0.0	0.0
8	01/11/2012	11:45	0.0	0.0	0.0
9	01/11/2012	11:46	0.0	0.0	0.0
10	01/11/2012	11:47	0.0	0.0	0.0
11	01/11/2012	11:48	0.0	0.0	0.0
12	01/11/2012	11:49	0.0	0.0	0.0
13	01/11/2012	11:50	0.0	0.0	0.0
14	01/11/2012	11:51	0.0	0.0	0.0
15	01/11/2012	11:52	0.0	0.0	0.0
16	01/11/2012	11:53	0.0	0.0	0.0
17	01/11/2012	11:54	0.0	0.0	0.0
18	01/11/2012	11:55	0.0	0.0	0.0
19	01/11/2012	11:56	0.0	0.0	0.0
20	01/11/2012	11:57	0.0	0.0	0.0
21	01/11/2012	11:58	0.0	0.0	0.0
22	01/11/2012	11:59	0.0	0.0	0.0
23	01/11/2012	12:00	0.0	0.0	0.0
24	01/11/2012	12:01	0.0	0.0	0.0
25	01/11/2012	12:02	0.0	0.0	0.0
26	01/11/2012	12:03	0.0	0.0	0.0
27	01/11/2012	12:04	0.0	0.0	0.0
28	01/11/2012	12:05	0.0	0.0	0.0
29	01/11/2012	12:06	0.0	0.0	0.0
30	01/11/2012	12:07	0.0	0.0	0.0
31	01/11/2012	12:08	0.0	0.0	0.0
32	01/11/2012	12:09	0.0	0.0	0.0
33	01/11/2012	12:10	0.0	0.0	0.0
34	01/11/2012	12:11	0.0	0.0	0.0
35	01/11/2012	12:12	0.0	0.0	0.0
36	01/11/2012	12:13	0.0	0.0	0.0
37	01/11/2012	12:14	0.0	0.0	0.0
38	01/11/2012	12:15	0.0	0.0	0.0
39	01/11/2012	12:16	0.0	0.0	0.0
40	01/11/2012	12:17	0.0	0.0	0.0
41	01/11/2012	12:18	0.0	0.0	0.0
42	01/11/2012	12:19	0.0	0.0	0.0
43	01/11/2012	12:20	0.0	0.0	0.0
44	01/11/2012	12:21	0.0	0.0	0.0
45	01/11/2012	12:22	0.0	0.0	0.0
46	01/11/2012	12:23	0.0	0.0	0.0
47	01/11/2012	12:24	0.0	0.0	0.0
48	01/11/2012	12:25	0.0	0.0	0.0
49	01/11/2012	12:26	0.0	0.0	0.0
50	01/11/2012	12:27	0.0	0.0	0.0
51	01/11/2012	12:28	0.0	0.0	0.0
52	01/11/2012	12:29	0.0	0.0	0.0
53	01/11/2012	12:30	0.0	0.0	0.0
54	01/11/2012	12:31	0.0	0.0	0.0
55	01/11/2012	12:32	0.0	0.0	0.0
56	01/11/2012	12:33	0.0	0.0	0.0
57	01/11/2012	12:34	0.0	0.0	0.0
58	01/11/2012	12:35	0.0	0.0	0.0

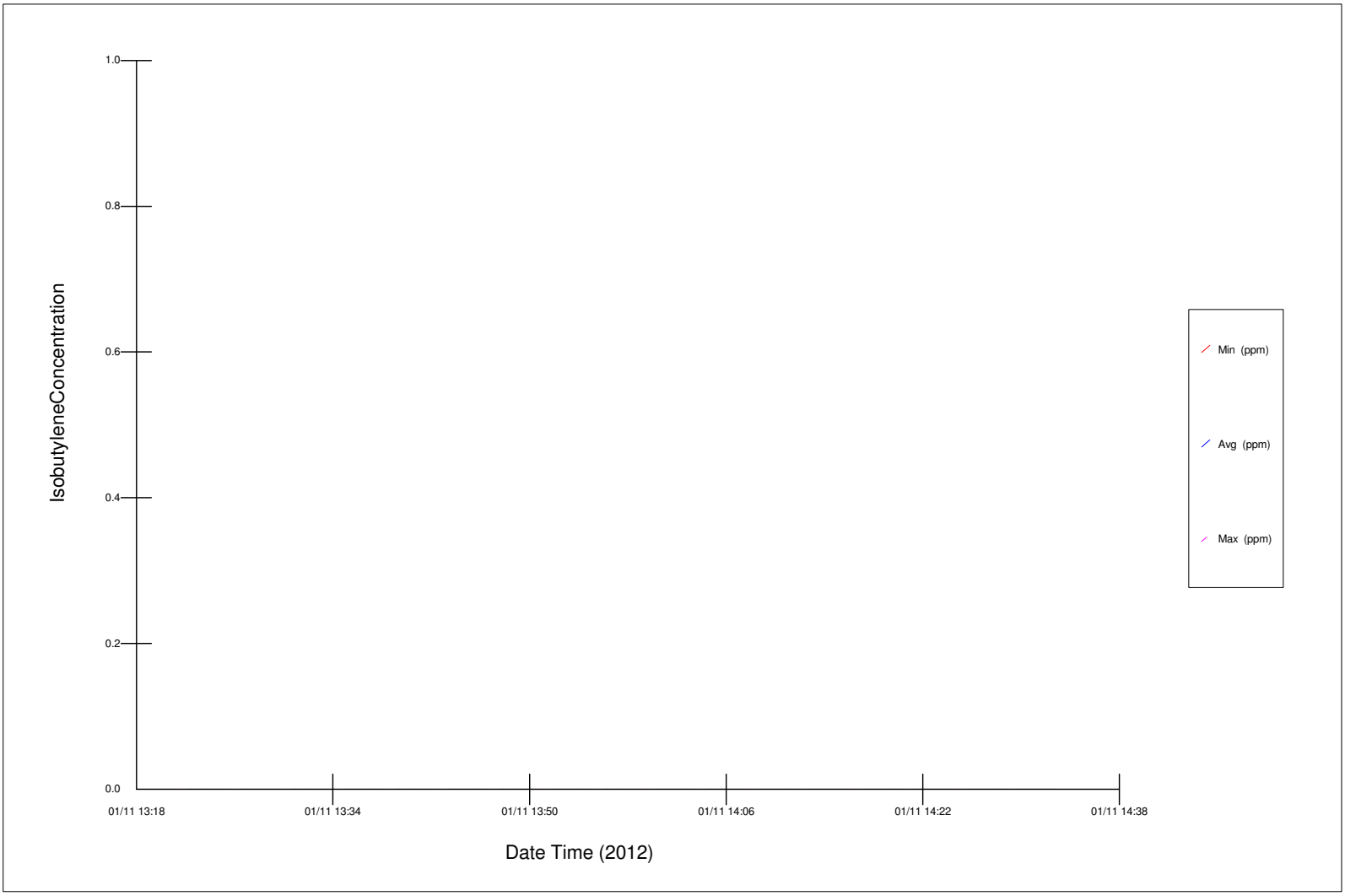
59	01/11/2012 12:36	0.0	0.0	0.0
60	01/11/2012 12:37	0.0	0.0	0.0
61	01/11/2012 12:38	0.0	0.0	0.0
62	01/11/2012 12:39	0.0	0.0	0.0
63	01/11/2012 12:40	0.0	0.0	0.0
64	01/11/2012 12:41	0.0	0.0	0.0
65	01/11/2012 12:42	0.0	0.0	0.0
66	01/11/2012 12:43	0.0	0.0	0.0
67	01/11/2012 12:44	0.0	0.0	0.0
68	01/11/2012 12:45	0.0	0.0	0.0
69	01/11/2012 12:46	0.0	0.0	0.0
70	01/11/2012 12:47	0.0	0.0	0.0
71	01/11/2012 12:48	0.0	0.0	0.0
72	01/11/2012 12:49	0.0	0.0	0.0
73	01/11/2012 12:50	0.0	0.0	0.0
74	01/11/2012 12:51	0.0	0.0	0.0
75	01/11/2012 12:52	0.0	0.0	0.0
76	01/11/2012 12:53	0.0	0.0	0.0
77	01/11/2012 12:54	0.0	0.0	0.0
78	01/11/2012 12:55	0.0	0.0	0.0
79	01/11/2012 12:56	0.0	0.0	0.0
80	01/11/2012 12:57	0.0	0.0	0.0
81	01/11/2012 12:58	0.0	0.0	0.0
82	01/11/2012 12:59	0.0	0.0	0.0
83	01/11/2012 13:00	0.0	0.0	0.0
84	01/11/2012 13:01	0.0	0.0	0.0
85	01/11/2012 13:02	0.0	0.0	0.0
86	01/11/2012 13:03	0.0	0.0	0.0
87	01/11/2012 13:04	0.0	0.0	0.0
88	01/11/2012 13:05	0.0	0.0	0.0
89	01/11/2012 13:06	0.0	0.0	0.0
90	01/11/2012 13:07	0.0	0.0	0.0
91	01/11/2012 13:08	0.0	0.0	0.0
92	01/11/2012 13:09	0.0	0.0	0.0
93	01/11/2012 13:10	0.0	0.0	0.0
94	01/11/2012 13:11	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/16 11:19
01/16 11:26
01/16 11:33
01/16 11:40
01/16 11:47
01/16 11:54
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000069
Data Points: 33 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	11:19	0.0	0.0	0.0
2	01/16/2012	11:20	0.0	0.0	0.0
3	01/16/2012	11:21	0.0	0.0	0.0
4	01/16/2012	11:22	0.0	0.0	0.0
5	01/16/2012	11:23	0.0	0.0	0.0
6	01/16/2012	11:24	0.0	0.0	0.0
7	01/16/2012	11:25	0.0	0.0	0.0
8	01/16/2012	11:26	0.0	0.0	0.0
9	01/16/2012	11:27	0.0	0.0	0.0
10	01/16/2012	11:28	0.0	0.0	0.0
11	01/16/2012	11:29	0.0	0.0	0.0
12	01/16/2012	11:30	0.0	0.0	0.0
13	01/16/2012	11:31	0.0	0.0	0.0
14	01/16/2012	11:32	0.0	0.0	0.0
15	01/16/2012	11:33	0.0	0.0	0.0
16	01/16/2012	11:34	0.0	0.0	0.0
17	01/16/2012	11:35	0.0	0.0	0.0
18	01/16/2012	11:36	0.0	0.0	0.0
19	01/16/2012	11:37	0.0	0.0	0.0
20	01/16/2012	11:38	0.0	0.0	0.0
21	01/16/2012	11:39	0.0	0.0	0.0
22	01/16/2012	11:40	0.0	0.0	0.0
23	01/16/2012	11:41	0.0	0.0	0.0
24	01/16/2012	11:42	0.0	0.0	0.0
25	01/16/2012	11:43	0.0	0.0	0.0
26	01/16/2012	11:44	0.0	0.0	0.0
27	01/16/2012	11:45	0.0	0.0	0.0
28	01/16/2012	11:46	0.0	0.0	0.0
29	01/16/2012	11:47	0.0	0.0	0.0
30	01/16/2012	11:48	0.0	0.0	0.0
31	01/16/2012	11:49	0.0	0.0	0.0
32	01/16/2012	11:50	0.0	0.0	0.0
33	01/16/2012	11:51	0.0	0.0	0.0

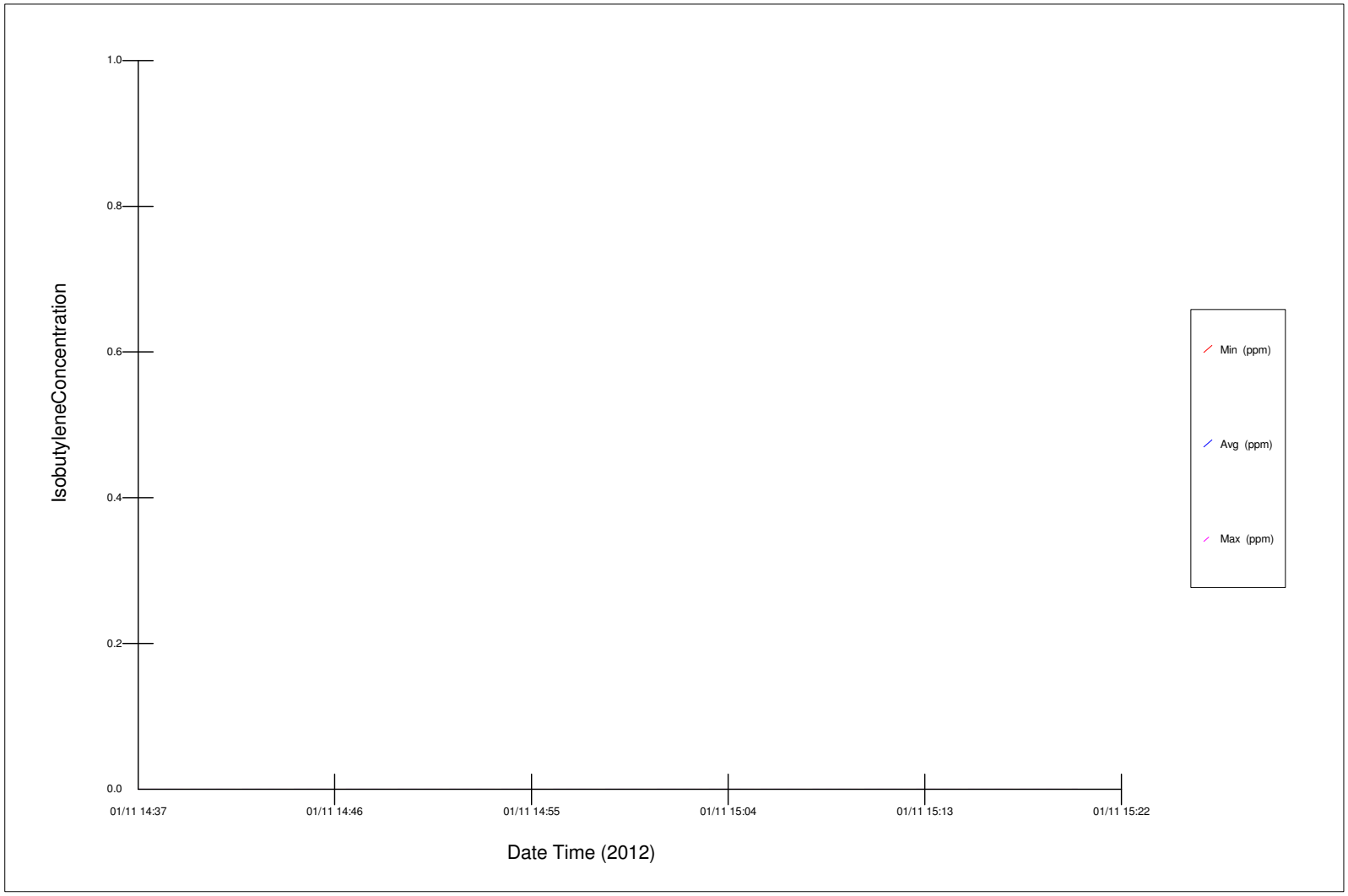

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 13:18
01/11 13:34
01/11 13:50
01/11 14:06
01/11 14:22
01/11 14:38
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000029
Data Points: 76 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	13:18	0.0	0.0	0.0
2	01/11/2012	13:19	0.0	0.0	0.0
3	01/11/2012	13:20	0.0	0.0	0.0
4	01/11/2012	13:21	0.0	0.0	0.0
5	01/11/2012	13:22	0.0	0.0	0.0
6	01/11/2012	13:23	0.0	0.0	0.0
7	01/11/2012	13:24	0.0	0.0	0.0
8	01/11/2012	13:25	0.0	0.0	0.0
9	01/11/2012	13:26	0.0	0.0	0.0
10	01/11/2012	13:27	0.0	0.0	0.0
11	01/11/2012	13:28	0.0	0.0	0.0
12	01/11/2012	13:29	0.0	0.0	0.0
13	01/11/2012	13:30	0.0	0.0	0.0
14	01/11/2012	13:31	0.0	0.0	0.0
15	01/11/2012	13:32	0.0	0.0	0.0
16	01/11/2012	13:33	0.0	0.0	0.0
17	01/11/2012	13:34	0.0	0.0	0.0
18	01/11/2012	13:35	0.0	0.0	0.0
19	01/11/2012	13:36	0.0	0.0	0.0
20	01/11/2012	13:37	0.0	0.0	0.0
21	01/11/2012	13:38	0.0	0.0	0.0
22	01/11/2012	13:39	0.0	0.0	0.0
23	01/11/2012	13:40	0.0	0.0	0.0
24	01/11/2012	13:41	0.0	0.0	0.0
25	01/11/2012	13:42	0.0	0.0	0.0
26	01/11/2012	13:43	0.0	0.0	0.0
27	01/11/2012	13:44	0.0	0.0	0.0
28	01/11/2012	13:45	0.0	0.0	0.0
29	01/11/2012	13:46	0.0	0.0	0.0
30	01/11/2012	13:47	0.0	0.0	0.0
31	01/11/2012	13:48	0.0	0.0	0.0
32	01/11/2012	13:49	0.0	0.0	0.0
33	01/11/2012	13:50	0.0	0.0	0.0
34	01/11/2012	13:51	0.0	0.0	0.0
35	01/11/2012	13:52	0.0	0.0	0.0
36	01/11/2012	13:53	0.0	0.0	0.0
37	01/11/2012	13:54	0.0	0.0	0.0
38	01/11/2012	13:55	0.0	0.0	0.0
39	01/11/2012	13:56	0.0	0.0	0.0
40	01/11/2012	13:57	0.0	0.0	0.0
41	01/11/2012	13:58	0.0	0.0	0.0
42	01/11/2012	13:59	0.0	0.0	0.0
43	01/11/2012	14:00	0.0	0.0	0.0
44	01/11/2012	14:01	0.0	0.0	0.0
45	01/11/2012	14:02	0.0	0.0	0.0
46	01/11/2012	14:03	0.0	0.0	0.0
47	01/11/2012	14:04	0.0	0.0	0.0
48	01/11/2012	14:05	0.0	0.0	0.0
49	01/11/2012	14:06	0.0	0.0	0.0
50	01/11/2012	14:07	0.0	0.0	0.0
51	01/11/2012	14:08	0.0	0.0	0.0
52	01/11/2012	14:09	0.0	0.0	0.0
53	01/11/2012	14:10	0.0	0.0	0.0
54	01/11/2012	14:11	0.0	0.0	0.0
55	01/11/2012	14:12	0.0	0.0	0.0
56	01/11/2012	14:13	0.0	0.0	0.0
57	01/11/2012	14:14	0.0	0.0	0.0
58	01/11/2012	14:15	0.0	0.0	0.0

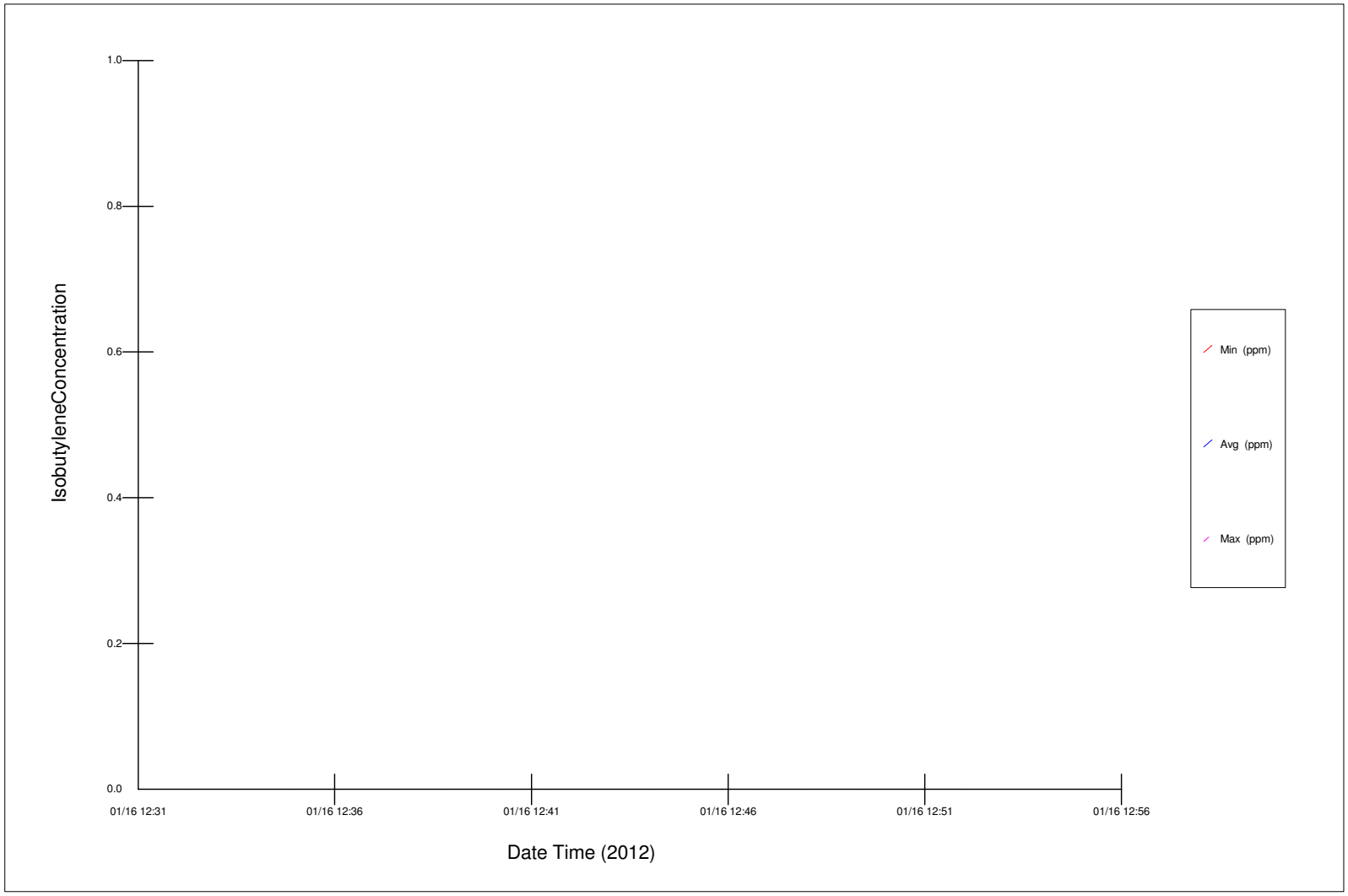
59	01/11/2012 14:16	0.0	0.0	0.0
60	01/11/2012 14:17	0.0	0.0	0.0
61	01/11/2012 14:18	0.0	0.0	0.0
62	01/11/2012 14:19	0.0	0.0	0.0
63	01/11/2012 14:20	0.0	0.0	0.0
64	01/11/2012 14:21	0.0	0.0	0.0
65	01/11/2012 14:22	0.0	0.0	0.0
66	01/11/2012 14:23	0.0	0.0	0.0
67	01/11/2012 14:24	0.0	0.0	0.0
68	01/11/2012 14:25	0.0	0.0	0.0
69	01/11/2012 14:26	0.0	0.0	0.0
70	01/11/2012 14:27	0.0	0.0	0.0
71	01/11/2012 14:28	0.0	0.0	0.0
72	01/11/2012 14:29	0.0	0.0	0.0
73	01/11/2012 14:30	0.0	0.0	0.0
74	01/11/2012 14:31	0.0	0.0	0.0
75	01/11/2012 14:32	0.0	0.0	0.0
76	01/11/2012 14:33	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 14:37
01/11 14:46
01/11 14:55
01/11 15:04
01/11 15:13
01/11 15:22
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000030
Data Points: 44 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

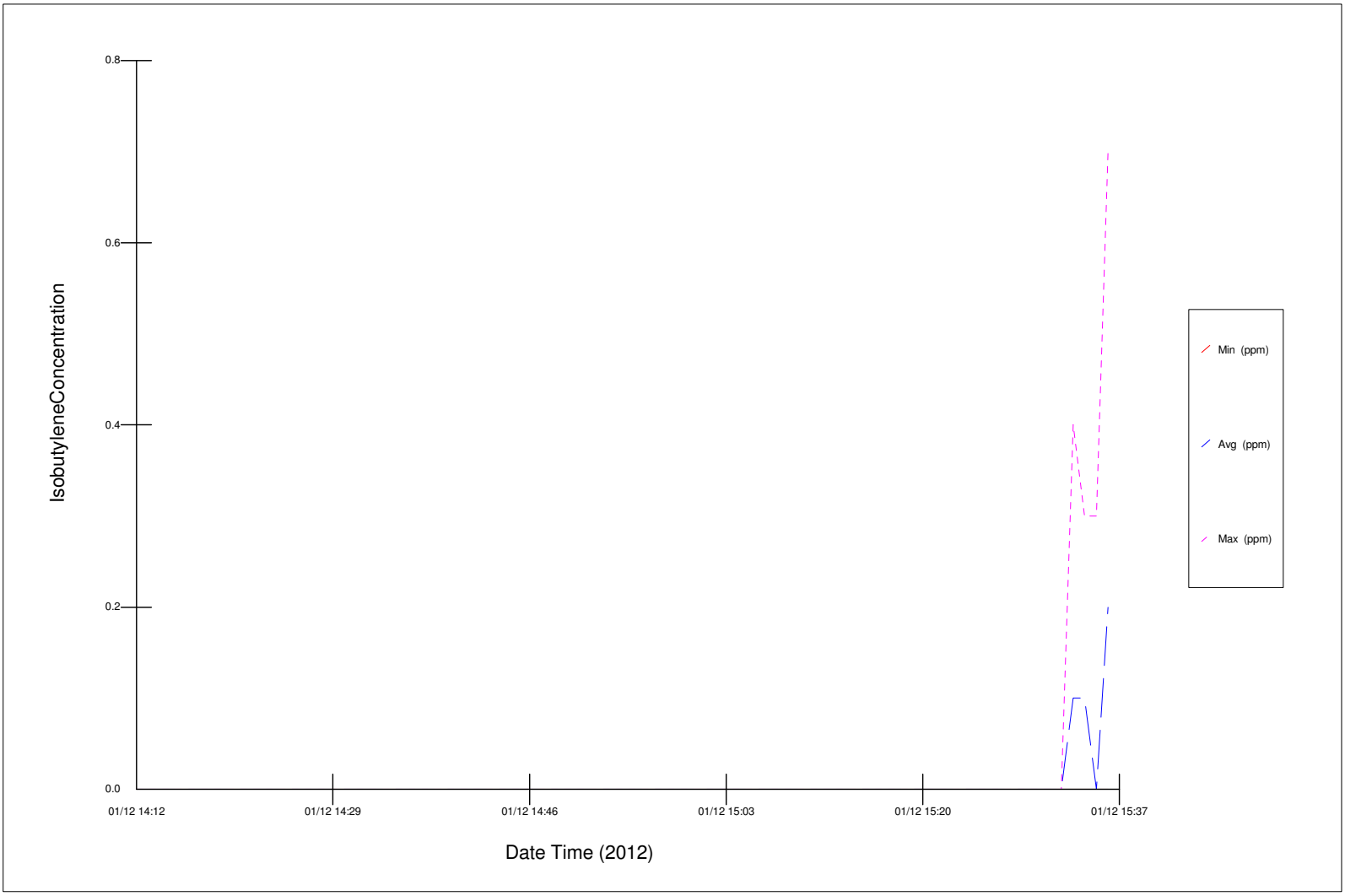
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	14:37	0.0	0.0	0.0
2	01/11/2012	14:38	0.0	0.0	0.0
3	01/11/2012	14:39	0.0	0.0	0.0
4	01/11/2012	14:40	0.0	0.0	0.0
5	01/11/2012	14:41	0.0	0.0	0.0
6	01/11/2012	14:42	0.0	0.0	0.0
7	01/11/2012	14:43	0.0	0.0	0.0
8	01/11/2012	14:44	0.0	0.0	0.0
9	01/11/2012	14:45	0.0	0.0	0.0
10	01/11/2012	14:46	0.0	0.0	0.0
11	01/11/2012	14:47	0.0	0.0	0.0
12	01/11/2012	14:48	0.0	0.0	0.0
13	01/11/2012	14:49	0.0	0.0	0.0
14	01/11/2012	14:50	0.0	0.0	0.0
15	01/11/2012	14:51	0.0	0.0	0.0
16	01/11/2012	14:52	0.0	0.0	0.0
17	01/11/2012	14:53	0.0	0.0	0.0
18	01/11/2012	14:54	0.0	0.0	0.0
19	01/11/2012	14:55	0.0	0.0	0.0
20	01/11/2012	14:56	0.0	0.0	0.0
21	01/11/2012	14:57	0.0	0.0	0.0
22	01/11/2012	14:58	0.0	0.0	0.0
23	01/11/2012	14:59	0.0	0.0	0.0
24	01/11/2012	15:00	0.0	0.0	0.0
25	01/11/2012	15:01	0.0	0.0	0.0
26	01/11/2012	15:02	0.0	0.0	0.0
27	01/11/2012	15:03	0.0	0.0	0.0
28	01/11/2012	15:04	0.0	0.0	0.0
29	01/11/2012	15:05	0.0	0.0	0.0
30	01/11/2012	15:06	0.0	0.0	0.0
31	01/11/2012	15:07	0.0	0.0	0.0
32	01/11/2012	15:08	0.0	0.0	0.0
33	01/11/2012	15:09	0.0	0.0	0.0
34	01/11/2012	15:10	0.0	0.0	0.0
35	01/11/2012	15:11	0.0	0.0	0.0
36	01/11/2012	15:12	0.0	0.0	0.0
37	01/11/2012	15:13	0.0	0.0	0.0
38	01/11/2012	15:14	0.0	0.0	0.0
39	01/11/2012	15:15	0.0	0.0	0.0
40	01/11/2012	15:16	0.0	0.0	0.0
41	01/11/2012	15:17	0.0	0.0	0.0
42	01/11/2012	15:18	0.0	0.0	0.0
43	01/11/2012	15:19	0.0	0.0	0.0
44	01/11/2012	15:20	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/16 12:31
01/16 12:36
01/16 12:41
01/16 12:46
01/16 12:51
01/16 12:56
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000070
Data Points: 22 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	12:31	0.0	0.0	0.0
2	01/16/2012	12:32	0.0	0.0	0.0
3	01/16/2012	12:33	0.0	0.0	0.0
4	01/16/2012	12:34	0.0	0.0	0.0
5	01/16/2012	12:35	0.0	0.0	0.0
6	01/16/2012	12:36	0.0	0.0	0.0
7	01/16/2012	12:37	0.0	0.0	0.0
8	01/16/2012	12:38	0.0	0.0	0.0
9	01/16/2012	12:39	0.0	0.0	0.0
10	01/16/2012	12:40	0.0	0.0	0.0
11	01/16/2012	12:41	0.0	0.0	0.0
12	01/16/2012	12:42	0.0	0.0	0.0
13	01/16/2012	12:43	0.0	0.0	0.0
14	01/16/2012	12:44	0.0	0.0	0.0
15	01/16/2012	12:45	0.0	0.0	0.0
16	01/16/2012	12:46	0.0	0.0	0.0
17	01/16/2012	12:47	0.0	0.0	0.0
18	01/16/2012	12:48	0.0	0.0	0.0
19	01/16/2012	12:49	0.0	0.0	0.0
20	01/16/2012	12:50	0.0	0.0	0.0
21	01/16/2012	12:51	0.0	0.0	0.0
22	01/16/2012	12:52	0.0	0.0	0.0

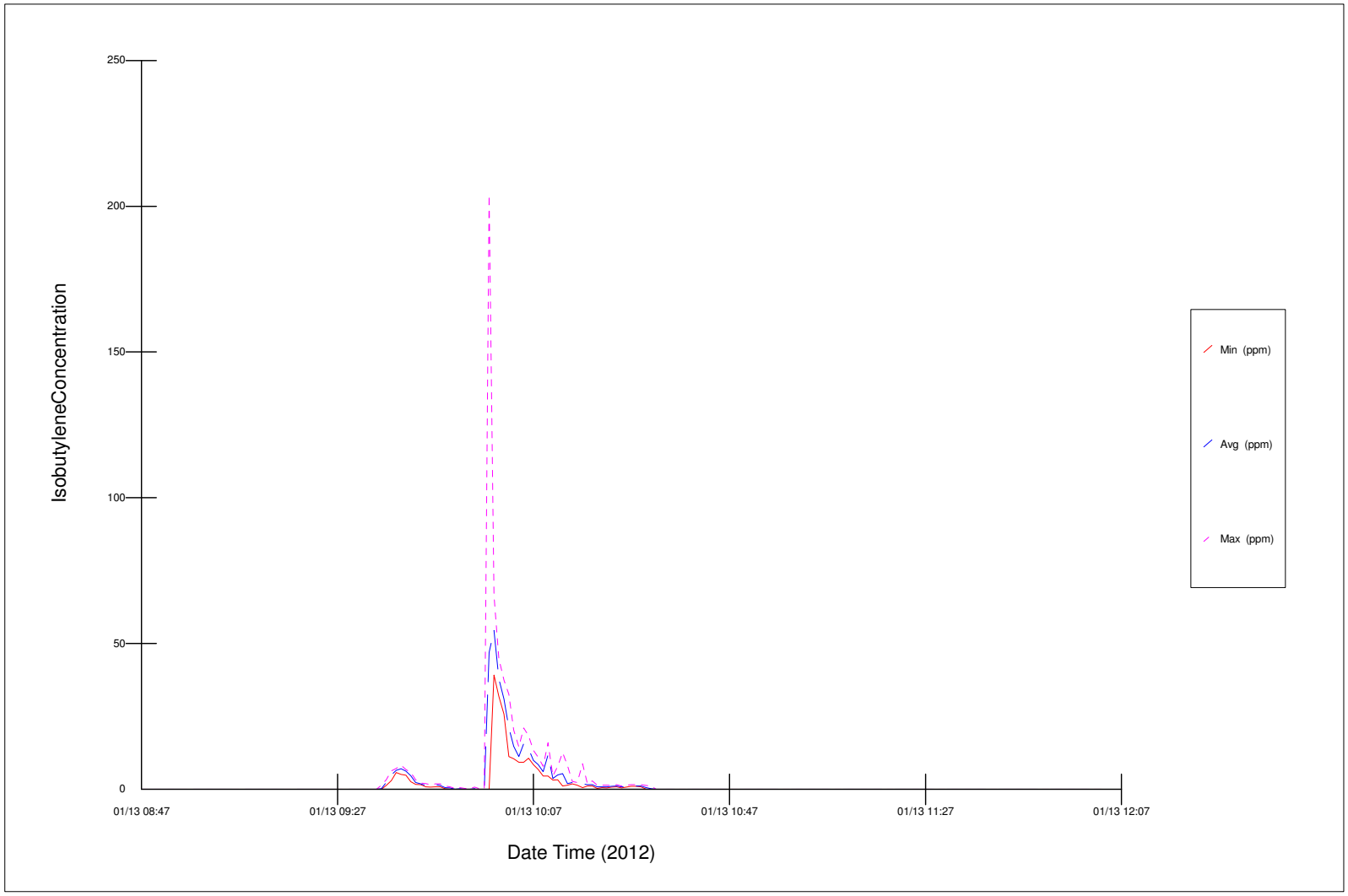

0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/12 14:12
01/12 14:29
01/12 14:46
01/12 15:03
01/12 15:20
01/12 15:37
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000034
Data Points: 85 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/12/2012	14:12	0.0	0.0	0.0
2	01/12/2012	14:13	0.0	0.0	0.0
3	01/12/2012	14:14	0.0	0.0	0.0
4	01/12/2012	14:15	0.0	0.0	0.0
5	01/12/2012	14:16	0.0	0.0	0.0
6	01/12/2012	14:17	0.0	0.0	0.0
7	01/12/2012	14:18	0.0	0.0	0.0
8	01/12/2012	14:19	0.0	0.0	0.0
9	01/12/2012	14:20	0.0	0.0	0.0
10	01/12/2012	14:21	0.0	0.0	0.0
11	01/12/2012	14:22	0.0	0.0	0.0
12	01/12/2012	14:23	0.0	0.0	0.0
13	01/12/2012	14:24	0.0	0.0	0.0
14	01/12/2012	14:25	0.0	0.0	0.0
15	01/12/2012	14:26	0.0	0.0	0.0
16	01/12/2012	14:27	0.0	0.0	0.0
17	01/12/2012	14:28	0.0	0.0	0.0
18	01/12/2012	14:29	0.0	0.0	0.0
19	01/12/2012	14:30	0.0	0.0	0.0
20	01/12/2012	14:31	0.0	0.0	0.0
21	01/12/2012	14:32	0.0	0.0	0.0
22	01/12/2012	14:33	0.0	0.0	0.0
23	01/12/2012	14:34	0.0	0.0	0.0
24	01/12/2012	14:35	0.0	0.0	0.0
25	01/12/2012	14:36	0.0	0.0	0.0
26	01/12/2012	14:37	0.0	0.0	0.0
27	01/12/2012	14:38	0.0	0.0	0.0
28	01/12/2012	14:39	0.0	0.0	0.0
29	01/12/2012	14:40	0.0	0.0	0.0
30	01/12/2012	14:41	0.0	0.0	0.0
31	01/12/2012	14:42	0.0	0.0	0.0
32	01/12/2012	14:43	0.0	0.0	0.0
33	01/12/2012	14:44	0.0	0.0	0.0
34	01/12/2012	14:45	0.0	0.0	0.0
35	01/12/2012	14:46	0.0	0.0	0.0
36	01/12/2012	14:47	0.0	0.0	0.0
37	01/12/2012	14:48	0.0	0.0	0.0
38	01/12/2012	14:49	0.0	0.0	0.0
39	01/12/2012	14:50	0.0	0.0	0.0
40	01/12/2012	14:51	0.0	0.0	0.0
41	01/12/2012	14:52	0.0	0.0	0.0
42	01/12/2012	14:53	0.0	0.0	0.0
43	01/12/2012	14:54	0.0	0.0	0.0
44	01/12/2012	14:55	0.0	0.0	0.0
45	01/12/2012	14:56	0.0	0.0	0.0
46	01/12/2012	14:57	0.0	0.0	0.0
47	01/12/2012	14:58	0.0	0.0	0.0
48	01/12/2012	14:59	0.0	0.0	0.0
49	01/12/2012	15:00	0.0	0.0	0.0
50	01/12/2012	15:01	0.0	0.0	0.0
51	01/12/2012	15:02	0.0	0.0	0.0
52	01/12/2012	15:03	0.0	0.0	0.0
53	01/12/2012	15:04	0.0	0.0	0.0
54	01/12/2012	15:05	0.0	0.0	0.0
55	01/12/2012	15:06	0.0	0.0	0.0
56	01/12/2012	15:07	0.0	0.0	0.0
57	01/12/2012	15:08	0.0	0.0	0.0
58	01/12/2012	15:09	0.0	0.0	0.0

59	01/12/2012 15:10	0.0	0.0	0.0
60	01/12/2012 15:11	0.0	0.0	0.0
61	01/12/2012 15:12	0.0	0.0	0.0
62	01/12/2012 15:13	0.0	0.0	0.0
63	01/12/2012 15:14	0.0	0.0	0.0
64	01/12/2012 15:15	0.0	0.0	0.0
65	01/12/2012 15:16	0.0	0.0	0.0
66	01/12/2012 15:17	0.0	0.0	0.0
67	01/12/2012 15:18	0.0	0.0	0.0
68	01/12/2012 15:19	0.0	0.0	0.0
69	01/12/2012 15:20	0.0	0.0	0.0
70	01/12/2012 15:21	0.0	0.0	0.0
71	01/12/2012 15:22	0.0	0.0	0.0
72	01/12/2012 15:23	0.0	0.0	0.0
73	01/12/2012 15:24	0.0	0.0	0.0
74	01/12/2012 15:25	0.0	0.0	0.0
75	01/12/2012 15:26	0.0	0.0	0.0
76	01/12/2012 15:27	0.0	0.0	0.0
77	01/12/2012 15:28	0.0	0.0	0.0
78	01/12/2012 15:29	0.0	0.0	0.0
79	01/12/2012 15:30	0.0	0.0	0.0
80	01/12/2012 15:31	0.0	0.0	0.0
81	01/12/2012 15:32	0.0	0.0	0.0
82	01/12/2012 15:33	0.0	0.1	0.4
83	01/12/2012 15:34	0.0	0.1	0.3
84	01/12/2012 15:35	0.0	0.0	0.3
85	01/12/2012 15:36	0.0	0.2	0.7


250
200
150
100
50
0
IsobutyleneConcentration
01/13 08:47
01/13 09:27
01/13 10:07
01/13 10:47
01/13 11:27
01/13 12:07
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000036
Data Points: 197 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

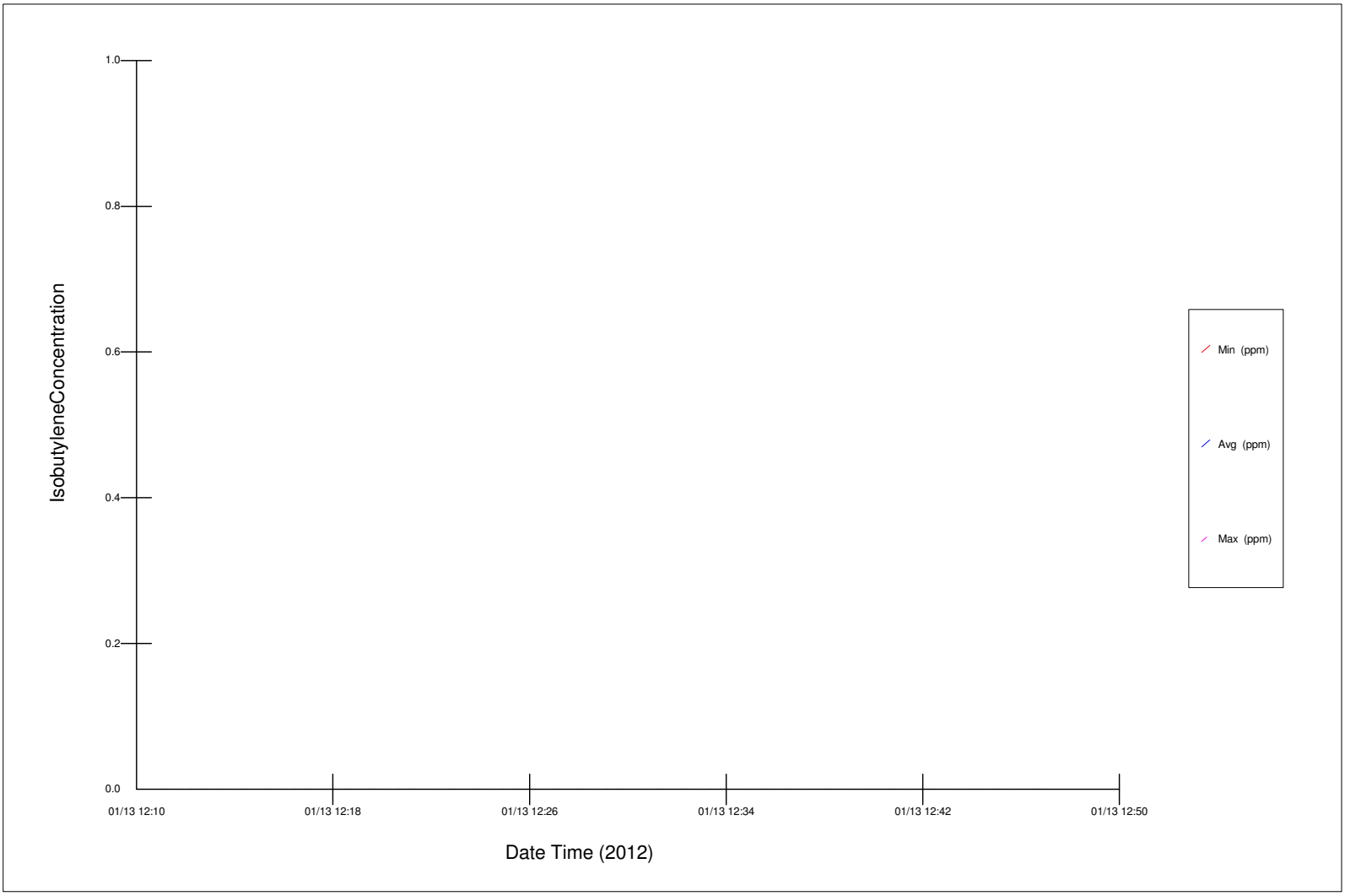
Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	08:47	0.0	0.0	0.0
2	01/13/2012	08:48	0.0	0.0	0.0
3	01/13/2012	08:49	0.0	0.0	0.0
4	01/13/2012	08:50	0.0	0.0	0.0
5	01/13/2012	08:51	0.0	0.0	0.0
6	01/13/2012	08:52	0.0	0.0	0.0
7	01/13/2012	08:53	0.0	0.0	0.0
8	01/13/2012	08:54	0.0	0.0	0.0
9	01/13/2012	08:55	0.0	0.0	0.0
10	01/13/2012	08:56	0.0	0.0	0.0
11	01/13/2012	08:57	0.0	0.0	0.0
12	01/13/2012	08:58	0.0	0.0	0.0
13	01/13/2012	08:59	0.0	0.0	0.0
14	01/13/2012	09:00	0.0	0.0	0.0
15	01/13/2012	09:01	0.0	0.0	0.0
16	01/13/2012	09:02	0.0	0.0	0.0
17	01/13/2012	09:03	0.0	0.0	0.0
18	01/13/2012	09:04	0.0	0.0	0.0
19	01/13/2012	09:05	0.0	0.0	0.0
20	01/13/2012	09:06	0.0	0.0	0.0
21	01/13/2012	09:07	0.0	0.0	0.0
22	01/13/2012	09:08	0.0	0.0	0.0
23	01/13/2012	09:09	0.0	0.0	0.0
24	01/13/2012	09:10	0.0	0.0	0.0
25	01/13/2012	09:11	0.0	0.0	0.0
26	01/13/2012	09:12	0.0	0.0	0.0
27	01/13/2012	09:13	0.0	0.0	0.0
28	01/13/2012	09:14	0.0	0.0	0.0
29	01/13/2012	09:15	0.0	0.0	0.0
30	01/13/2012	09:16	0.0	0.0	0.0
31	01/13/2012	09:17	0.0	0.0	0.0
32	01/13/2012	09:18	0.0	0.0	0.0
33	01/13/2012	09:19	0.0	0.0	0.0
34	01/13/2012	09:20	0.0	0.0	0.0
35	01/13/2012	09:21	0.0	0.0	0.0
36	01/13/2012	09:22	0.0	0.0	0.0
37	01/13/2012	09:23	0.0	0.0	0.0
38	01/13/2012	09:24	0.0	0.0	0.0
39	01/13/2012	09:25	0.0	0.0	0.0
40	01/13/2012	09:26	0.0	0.0	0.0
41	01/13/2012	09:27	0.0	0.0	0.0
42	01/13/2012	09:28	0.0	0.0	0.0
43	01/13/2012	09:29	0.0	0.0	0.0
44	01/13/2012	09:30	0.0	0.0	0.0
45	01/13/2012	09:31	0.0	0.0	0.0
46	01/13/2012	09:32	0.0	0.0	0.0
47	01/13/2012	09:33	0.0	0.0	0.0
48	01/13/2012	09:34	0.0	0.0	0.0
49	01/13/2012	09:35	0.0	0.0	0.0
50	01/13/2012	09:36	0.0	0.2	1.4
51	01/13/2012	09:37	1.3	2.3	3.3
52	01/13/2012	09:38	3.0	4.9	6.3
53	01/13/2012	09:39	5.8	6.4	7.2
54	01/13/2012	09:40	5.1	7.0	8.2
55	01/13/2012	09:41	4.8	6.1	6.7
56	01/13/2012	09:42	2.6	4.6	5.8
57	01/13/2012	09:43	1.7	2.2	3.2
58	01/13/2012	09:44	1.5	1.8	2.1

59	01/13/2012 09:45	0.9	1.3	2.0
60	01/13/2012 09:46	0.7	1.1	1.5
61	01/13/2012 09:47	0.9	1.5	1.8
62	01/13/2012 09:48	0.9	1.3	1.8
63	01/13/2012 09:49	0.2	0.6	1.1
64	01/13/2012 09:50	0.0	0.4	0.9
65	01/13/2012 09:51	0.0	0.0	0.3
66	01/13/2012 09:52	0.0	0.1	0.6
67	01/13/2012 09:53	0.0	0.0	0.3
68	01/13/2012 09:54	0.0	0.0	0.1
69	01/13/2012 09:55	0.0	0.2	0.7
70	01/13/2012 09:56	0.0	0.0	0.2
71	01/13/2012 09:57	0.0	0.0	0.1
72	01/13/2012 09:58	0.0	46.9	203.9H
73	01/13/2012 09:59	39.1	54.5L	66.6L
74	01/13/2012 10:00	31.8	37.8	44.9
75	01/13/2012 10:01	25.7	30.9	37.5
76	01/13/2012 10:02	11.2	21.1	32.5
77	01/13/2012 10:03	10.5	14.7	20.3
78	01/13/2012 10:04	9.3	11.2	14.6
79	01/13/2012 10:05	9.3	15.6	21.0
80	01/13/2012 10:06	10.6	13.9	18.3
81	01/13/2012 10:07	8.4	10.0	13.3
82	01/13/2012 10:08	6.7	8.4	10.9
83	01/13/2012 10:09	4.5	6.0	7.8
84	01/13/2012 10:10	4.5	11.8	15.9
85	01/13/2012 10:11	3.1	3.7	4.5
86	01/13/2012 10:12	3.2	4.9	7.9
87	01/13/2012 10:13	1.2	5.3	12.6
88	01/13/2012 10:14	1.4	2.0	8.1
89	01/13/2012 10:15	1.9	2.3	2.7
90	01/13/2012 10:16	1.4	1.9	2.2
91	01/13/2012 10:17	0.6	1.8	8.7
92	01/13/2012 10:18	1.2	1.6	1.9
93	01/13/2012 10:19	1.2	1.5	2.8
94	01/13/2012 10:20	0.3	0.9	1.4
95	01/13/2012 10:21	0.6	0.9	1.4
96	01/13/2012 10:22	0.5	0.8	1.4
97	01/13/2012 10:23	0.7	1.0	1.3
98	01/13/2012 10:24	0.9	1.1	1.6
99	01/13/2012 10:25	0.4	0.8	1.2
100	01/13/2012 10:26	0.7	0.9	1.4
101	01/13/2012 10:27	1.0	1.1	1.5
102	01/13/2012 10:28	1.0	1.2	1.6
103	01/13/2012 10:29	0.9	1.1	1.6
104	01/13/2012 10:30	0.0	0.6	1.3
105	01/13/2012 10:31	0.0	0.1	1.1
106	01/13/2012 10:32	0.0	0.0	0.0
107	01/13/2012 10:33	0.0	0.0	0.0
108	01/13/2012 10:34	0.0	0.0	0.0
109	01/13/2012 10:35	0.0	0.0	0.0
110	01/13/2012 10:36	0.0	0.0	0.0
111	01/13/2012 10:37	0.0	0.0	0.0
112	01/13/2012 10:38	0.0	0.0	0.0
113	01/13/2012 10:39	0.0	0.0	0.0
114	01/13/2012 10:40	0.0	0.0	0.0
115	01/13/2012 10:41	0.0	0.0	0.0
116	01/13/2012 10:42	0.0	0.0	0.0
117	01/13/2012 10:43	0.0	0.0	0.0
118	01/13/2012 10:44	0.0	0.0	0.0
119	01/13/2012 10:45	0.0	0.0	0.0
120	01/13/2012 10:46	0.0	0.0	0.0
121	01/13/2012 10:47	0.0	0.0	0.0
122	01/13/2012 10:48	0.0	0.0	0.0
123	01/13/2012 10:49	0.0	0.0	0.0
124	01/13/2012 10:50	0.0	0.0	0.0
125	01/13/2012 10:51	0.0	0.0	0.0
126	01/13/2012 10:52	0.0	0.0	0.0
127	01/13/2012 10:53	0.0	0.0	0.0

128	01/13/2012 10:54	0.0	0.0	0.0
129	01/13/2012 10:55	0.0	0.0	0.0
130	01/13/2012 10:56	0.0	0.0	0.0
131	01/13/2012 10:57	0.0	0.0	0.0
132	01/13/2012 10:58	0.0	0.0	0.0
133	01/13/2012 10:59	0.0	0.0	0.0
134	01/13/2012 11:00	0.0	0.0	0.0
135	01/13/2012 11:01	0.0	0.0	0.0
136	01/13/2012 11:02	0.0	0.0	0.0
137	01/13/2012 11:03	0.0	0.0	0.0
138	01/13/2012 11:04	0.0	0.0	0.0
139	01/13/2012 11:05	0.0	0.0	0.0
140	01/13/2012 11:06	0.0	0.0	0.0
141	01/13/2012 11:07	0.0	0.0	0.0
142	01/13/2012 11:08	0.0	0.0	0.0
143	01/13/2012 11:09	0.0	0.0	0.0
144	01/13/2012 11:10	0.0	0.0	0.0
145	01/13/2012 11:11	0.0	0.0	0.0
146	01/13/2012 11:12	0.0	0.0	0.0
147	01/13/2012 11:13	0.0	0.0	0.0
148	01/13/2012 11:14	0.0	0.0	0.0
149	01/13/2012 11:15	0.0	0.0	0.0
150	01/13/2012 11:16	0.0	0.0	0.0
151	01/13/2012 11:17	0.0	0.0	0.0
152	01/13/2012 11:18	0.0	0.0	0.0
153	01/13/2012 11:19	0.0	0.0	0.0
154	01/13/2012 11:20	0.0	0.0	0.0
155	01/13/2012 11:21	0.0	0.0	0.0
156	01/13/2012 11:22	0.0	0.0	0.0
157	01/13/2012 11:23	0.0	0.0	0.0
158	01/13/2012 11:24	0.0	0.0	0.0
159	01/13/2012 11:25	0.0	0.0	0.0
160	01/13/2012 11:26	0.0	0.0	0.0
161	01/13/2012 11:27	0.0	0.0	0.0
162	01/13/2012 11:28	0.0	0.0	0.0
163	01/13/2012 11:29	0.0	0.0	0.0
164	01/13/2012 11:30	0.0	0.0	0.0
165	01/13/2012 11:31	0.0	0.0	0.0
166	01/13/2012 11:32	0.0	0.0	0.0
167	01/13/2012 11:33	0.0	0.0	0.0
168	01/13/2012 11:34	0.0	0.0	0.0
169	01/13/2012 11:35	0.0	0.0	0.0
170	01/13/2012 11:36	0.0	0.0	0.0
171	01/13/2012 11:37	0.0	0.0	0.0
172	01/13/2012 11:38	0.0	0.0	0.0
173	01/13/2012 11:39	0.0	0.0	0.0
174	01/13/2012 11:40	0.0	0.0	0.0
175	01/13/2012 11:41	0.0	0.0	0.0
176	01/13/2012 11:42	0.0	0.0	0.0
177	01/13/2012 11:43	0.0	0.0	0.0
178	01/13/2012 11:44	0.0	0.0	0.0
179	01/13/2012 11:45	0.0	0.0	0.0
180	01/13/2012 11:46	0.0	0.0	0.0
181	01/13/2012 11:47	0.0	0.0	0.0
182	01/13/2012 11:48	0.0	0.0	0.0
183	01/13/2012 11:49	0.0	0.0	0.0
184	01/13/2012 11:50	0.0	0.0	0.0
185	01/13/2012 11:51	0.0	0.0	0.0
186	01/13/2012 11:52	0.0	0.0	0.0
187	01/13/2012 11:53	0.0	0.0	0.0
188	01/13/2012 11:54	0.0	0.0	0.0
189	01/13/2012 11:55	0.0	0.0	0.0
190	01/13/2012 11:56	0.0	0.0	0.0
191	01/13/2012 11:57	0.0	0.0	0.0
192	01/13/2012 11:58	0.0	0.0	0.0
193	01/13/2012 11:59	0.0	0.0	0.0
194	01/13/2012 12:00	0.0	0.0	0.0
195	01/13/2012 12:01	0.0	0.0	0.0
196	01/13/2012 12:02	0.0	0.0	0.0

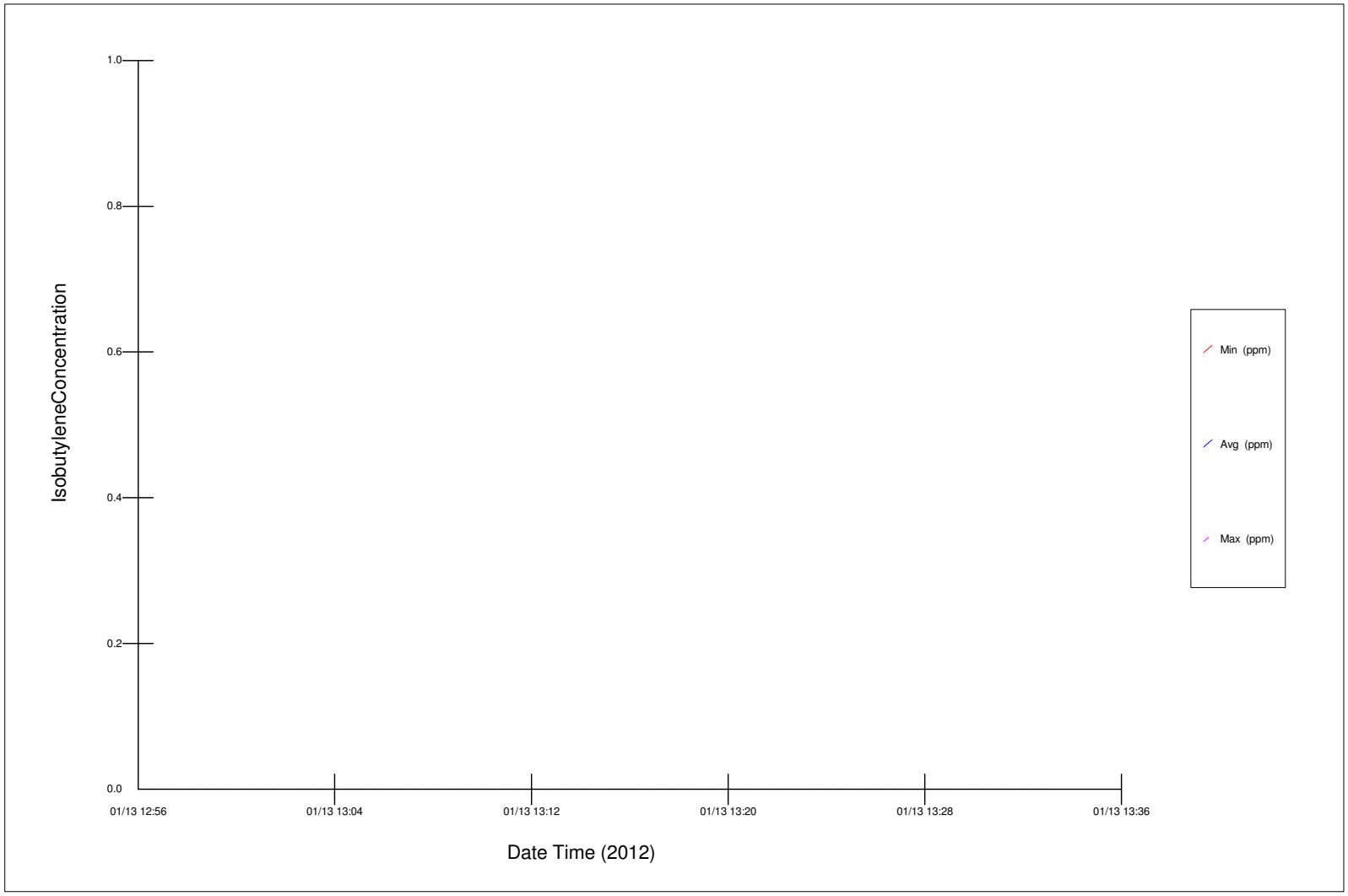
197	01/13/2012 12:03	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/13 12:10
01/13 12:18
01/13 12:26
01/13 12:34
01/13 12:42
01/13 12:50
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000037
Data Points: 38 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

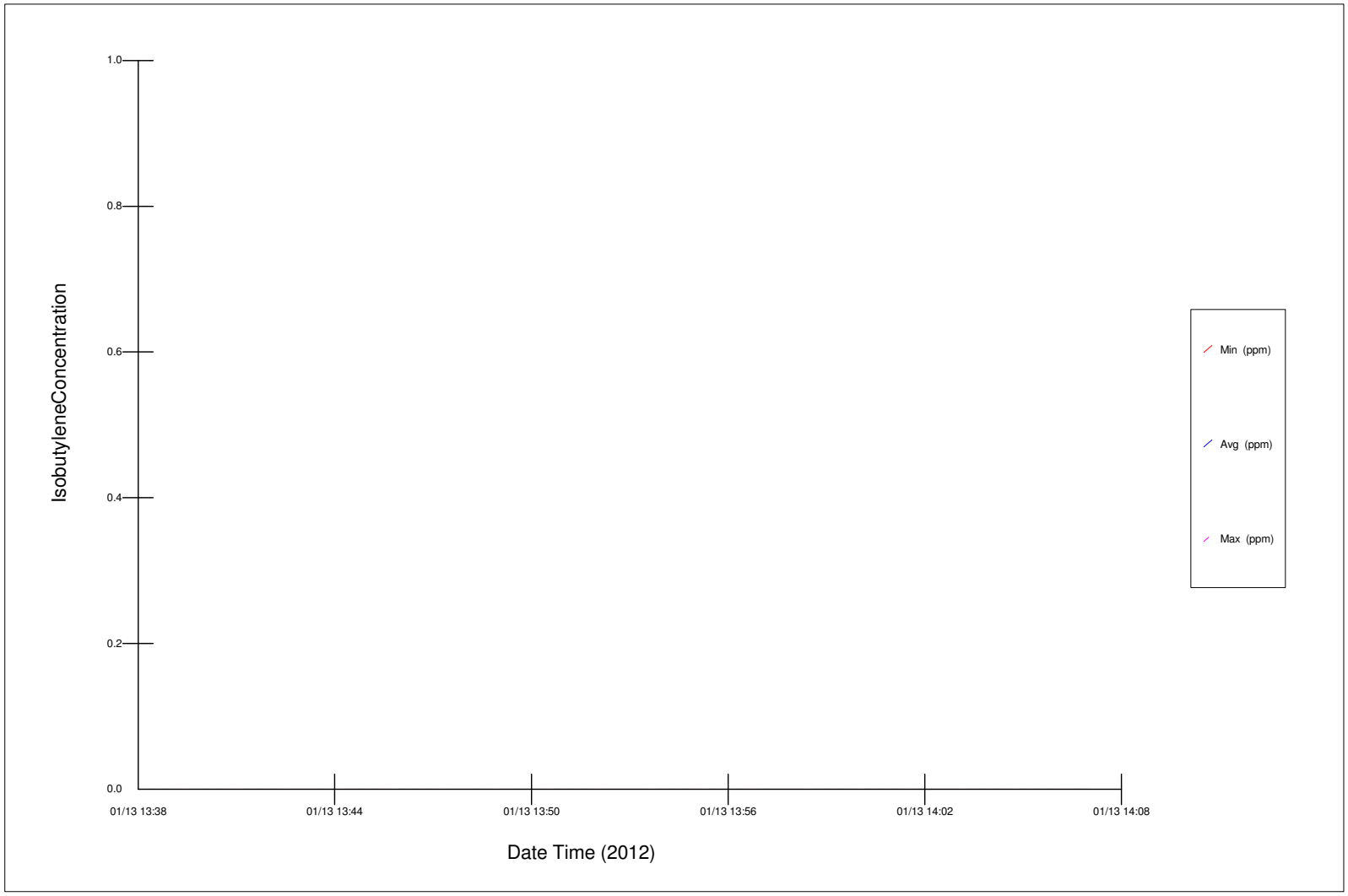
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	12:10	0.0	0.0	0.0
2	01/13/2012	12:11	0.0	0.0	0.0
3	01/13/2012	12:12	0.0	0.0	0.0
4	01/13/2012	12:13	0.0	0.0	0.0
5	01/13/2012	12:14	0.0	0.0	0.0
6	01/13/2012	12:15	0.0	0.0	0.0
7	01/13/2012	12:16	0.0	0.0	0.0
8	01/13/2012	12:17	0.0	0.0	0.0
9	01/13/2012	12:18	0.0	0.0	0.0
10	01/13/2012	12:19	0.0	0.0	0.0
11	01/13/2012	12:20	0.0	0.0	0.0
12	01/13/2012	12:21	0.0	0.0	0.0
13	01/13/2012	12:22	0.0	0.0	0.0
14	01/13/2012	12:23	0.0	0.0	0.0
15	01/13/2012	12:24	0.0	0.0	0.0
16	01/13/2012	12:25	0.0	0.0	0.0
17	01/13/2012	12:26	0.0	0.0	0.0
18	01/13/2012	12:27	0.0	0.0	0.0
19	01/13/2012	12:28	0.0	0.0	0.0
20	01/13/2012	12:29	0.0	0.0	0.0
21	01/13/2012	12:30	0.0	0.0	0.0
22	01/13/2012	12:31	0.0	0.0	0.0
23	01/13/2012	12:32	0.0	0.0	0.0
24	01/13/2012	12:33	0.0	0.0	0.0
25	01/13/2012	12:34	0.0	0.0	0.0
26	01/13/2012	12:35	0.0	0.0	0.0
27	01/13/2012	12:36	0.0	0.0	0.0
28	01/13/2012	12:37	0.0	0.0	0.0
29	01/13/2012	12:38	0.0	0.0	0.0
30	01/13/2012	12:39	0.0	0.0	0.0
31	01/13/2012	12:40	0.0	0.0	0.0
32	01/13/2012	12:41	0.0	0.0	0.0
33	01/13/2012	12:42	0.0	0.0	0.0
34	01/13/2012	12:43	0.0	0.0	0.0
35	01/13/2012	12:44	0.0	0.0	0.0
36	01/13/2012	12:45	0.0	0.0	0.0
37	01/13/2012	12:46	0.0	0.0	0.0
38	01/13/2012	12:47	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/13 12:56
01/13 13:04
01/13 13:12
01/13 13:20
01/13 13:28
01/13 13:36
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000038
Data Points: 38 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

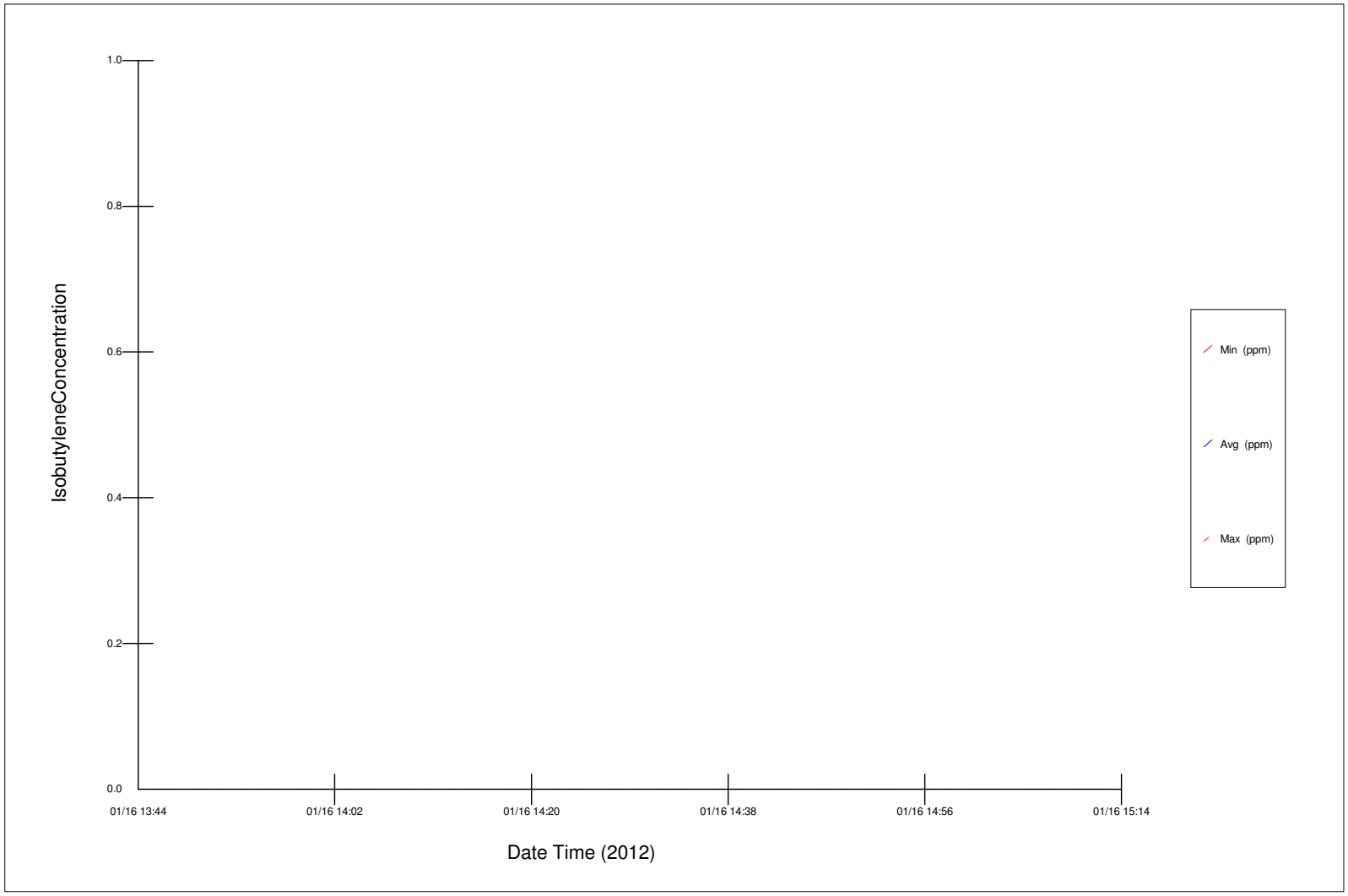
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	12:56	0.0	0.0	0.0
2	01/13/2012	12:57	0.0	0.0	0.0
3	01/13/2012	12:58	0.0	0.0	0.0
4	01/13/2012	12:59	0.0	0.0	0.0
5	01/13/2012	13:00	0.0	0.0	0.0
6	01/13/2012	13:01	0.0	0.0	0.0
7	01/13/2012	13:02	0.0	0.0	0.0
8	01/13/2012	13:03	0.0	0.0	0.0
9	01/13/2012	13:04	0.0	0.0	0.0
10	01/13/2012	13:05	0.0	0.0	0.0
11	01/13/2012	13:06	0.0	0.0	0.0
12	01/13/2012	13:07	0.0	0.0	0.0
13	01/13/2012	13:08	0.0	0.0	0.0
14	01/13/2012	13:09	0.0	0.0	0.0
15	01/13/2012	13:10	0.0	0.0	0.0
16	01/13/2012	13:11	0.0	0.0	0.0
17	01/13/2012	13:12	0.0	0.0	0.0
18	01/13/2012	13:13	0.0	0.0	0.0
19	01/13/2012	13:14	0.0	0.0	0.0
20	01/13/2012	13:15	0.0	0.0	0.0
21	01/13/2012	13:16	0.0	0.0	0.0
22	01/13/2012	13:17	0.0	0.0	0.0
23	01/13/2012	13:18	0.0	0.0	0.0
24	01/13/2012	13:19	0.0	0.0	0.0
25	01/13/2012	13:20	0.0	0.0	0.0
26	01/13/2012	13:21	0.0	0.0	0.0
27	01/13/2012	13:22	0.0	0.0	0.0
28	01/13/2012	13:23	0.0	0.0	0.0
29	01/13/2012	13:24	0.0	0.0	0.0
30	01/13/2012	13:25	0.0	0.0	0.0
31	01/13/2012	13:26	0.0	0.0	0.0
32	01/13/2012	13:27	0.0	0.0	0.0
33	01/13/2012	13:28	0.0	0.0	0.0
34	01/13/2012	13:29	0.0	0.0	0.0
35	01/13/2012	13:30	0.0	0.0	0.0
36	01/13/2012	13:31	0.0	0.0	0.0
37	01/13/2012	13:32	0.0	0.0	0.0
38	01/13/2012	13:33	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/13 13:38
01/13 13:44
01/13 13:50
01/13 13:56
01/13 14:02
01/13 14:08
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000039
Data Points: 30 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/09/2012 08:34

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	13:38	0.0	0.0	0.0
2	01/13/2012	13:39	0.0	0.0	0.0
3	01/13/2012	13:40	0.0	0.0	0.0
4	01/13/2012	13:41	0.0	0.0	0.0
5	01/13/2012	13:42	0.0	0.0	0.0
6	01/13/2012	13:43	0.0	0.0	0.0
7	01/13/2012	13:44	0.0	0.0	0.0
8	01/13/2012	13:45	0.0	0.0	0.0
9	01/13/2012	13:46	0.0	0.0	0.0
10	01/13/2012	13:47	0.0	0.0	0.0
11	01/13/2012	13:48	0.0	0.0	0.0
12	01/13/2012	13:49	0.0	0.0	0.0
13	01/13/2012	13:50	0.0	0.0	0.0
14	01/13/2012	13:51	0.0	0.0	0.0
15	01/13/2012	13:52	0.0	0.0	0.0
16	01/13/2012	13:53	0.0	0.0	0.0
17	01/13/2012	13:54	0.0	0.0	0.0
18	01/13/2012	13:55	0.0	0.0	0.0
19	01/13/2012	13:56	0.0	0.0	0.0
20	01/13/2012	13:57	0.0	0.0	0.0
21	01/13/2012	13:58	0.0	0.0	0.0
22	01/13/2012	13:59	0.0	0.0	0.0
23	01/13/2012	14:00	0.0	0.0	0.0
24	01/13/2012	14:01	0.0	0.0	0.0
25	01/13/2012	14:02	0.0	0.0	0.0
26	01/13/2012	14:03	0.0	0.0	0.0
27	01/13/2012	14:04	0.0	0.0	0.0
28	01/13/2012	14:05	0.0	0.0	0.0
29	01/13/2012	14:06	0.0	0.0	0.0
30	01/13/2012	14:07	0.0	0.0	0.0

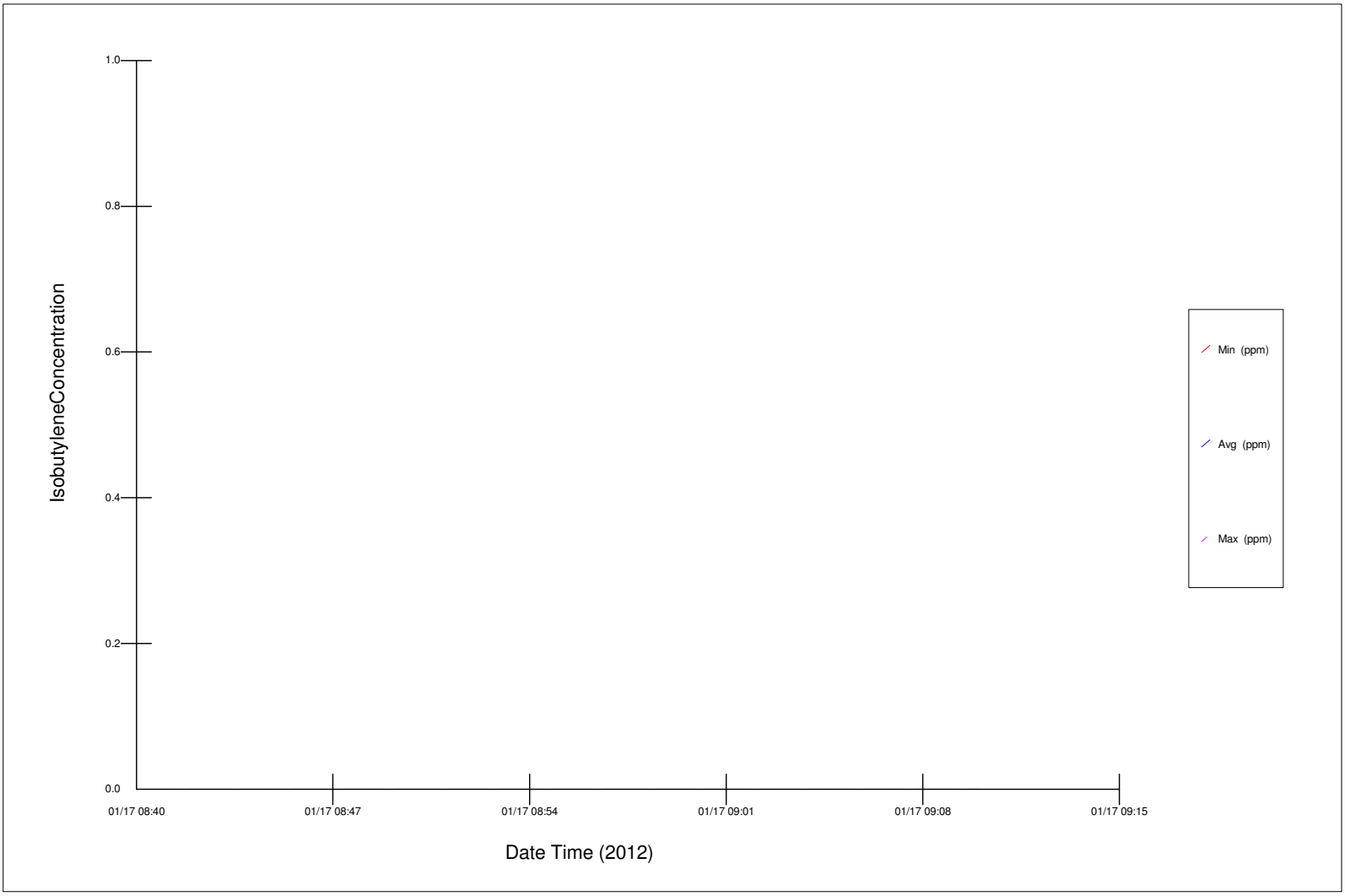

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 13:44
01/16 14:02
01/16 14:20
01/16 14:38
01/16 14:56
01/16 15:14
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000071
Data Points: 90 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	13:44	0.0	0.0	0.0
2	01/16/2012	13:45	0.0	0.0	0.0
3	01/16/2012	13:46	0.0	0.0	0.0
4	01/16/2012	13:47	0.0	0.0	0.0
5	01/16/2012	13:48	0.0	0.0	0.0
6	01/16/2012	13:49	0.0	0.0	0.0
7	01/16/2012	13:50	0.0	0.0	0.0
8	01/16/2012	13:51	0.0	0.0	0.0
9	01/16/2012	13:52	0.0	0.0	0.0
10	01/16/2012	13:53	0.0	0.0	0.0
11	01/16/2012	13:54	0.0	0.0	0.0
12	01/16/2012	13:55	0.0	0.0	0.0
13	01/16/2012	13:56	0.0	0.0	0.0
14	01/16/2012	13:57	0.0	0.0	0.0
15	01/16/2012	13:58	0.0	0.0	0.0
16	01/16/2012	13:59	0.0	0.0	0.0
17	01/16/2012	14:00	0.0	0.0	0.0
18	01/16/2012	14:01	0.0	0.0	0.0
19	01/16/2012	14:02	0.0	0.0	0.0
20	01/16/2012	14:03	0.0	0.0	0.0
21	01/16/2012	14:04	0.0	0.0	0.0
22	01/16/2012	14:05	0.0	0.0	0.0
23	01/16/2012	14:06	0.0	0.0	0.0
24	01/16/2012	14:07	0.0	0.0	0.0
25	01/16/2012	14:08	0.0	0.0	0.0
26	01/16/2012	14:09	0.0	0.0	0.0
27	01/16/2012	14:10	0.0	0.0	0.0
28	01/16/2012	14:11	0.0	0.0	0.0
29	01/16/2012	14:12	0.0	0.0	0.0
30	01/16/2012	14:13	0.0	0.0	0.0
31	01/16/2012	14:14	0.0	0.0	0.0
32	01/16/2012	14:15	0.0	0.0	0.0
33	01/16/2012	14:16	0.0	0.0	0.0
34	01/16/2012	14:17	0.0	0.0	0.0
35	01/16/2012	14:18	0.0	0.0	0.0
36	01/16/2012	14:19	0.0	0.0	0.0
37	01/16/2012	14:20	0.0	0.0	0.0
38	01/16/2012	14:21	0.0	0.0	0.0
39	01/16/2012	14:22	0.0	0.0	0.0
40	01/16/2012	14:23	0.0	0.0	0.0
41	01/16/2012	14:24	0.0	0.0	0.0
42	01/16/2012	14:25	0.0	0.0	0.0
43	01/16/2012	14:26	0.0	0.0	0.0
44	01/16/2012	14:27	0.0	0.0	0.0
45	01/16/2012	14:28	0.0	0.0	0.0
46	01/16/2012	14:29	0.0	0.0	0.0
47	01/16/2012	14:30	0.0	0.0	0.0
48	01/16/2012	14:31	0.0	0.0	0.0
49	01/16/2012	14:32	0.0	0.0	0.0
50	01/16/2012	14:33	0.0	0.0	0.0
51	01/16/2012	14:34	0.0	0.0	0.0
52	01/16/2012	14:35	0.0	0.0	0.0
53	01/16/2012	14:36	0.0	0.0	0.0
54	01/16/2012	14:37	0.0	0.0	0.0
55	01/16/2012	14:38	0.0	0.0	0.0
56	01/16/2012	14:39	0.0	0.0	0.0
57	01/16/2012	14:40	0.0	0.0	0.0
58	01/16/2012	14:41	0.0	0.0	0.0

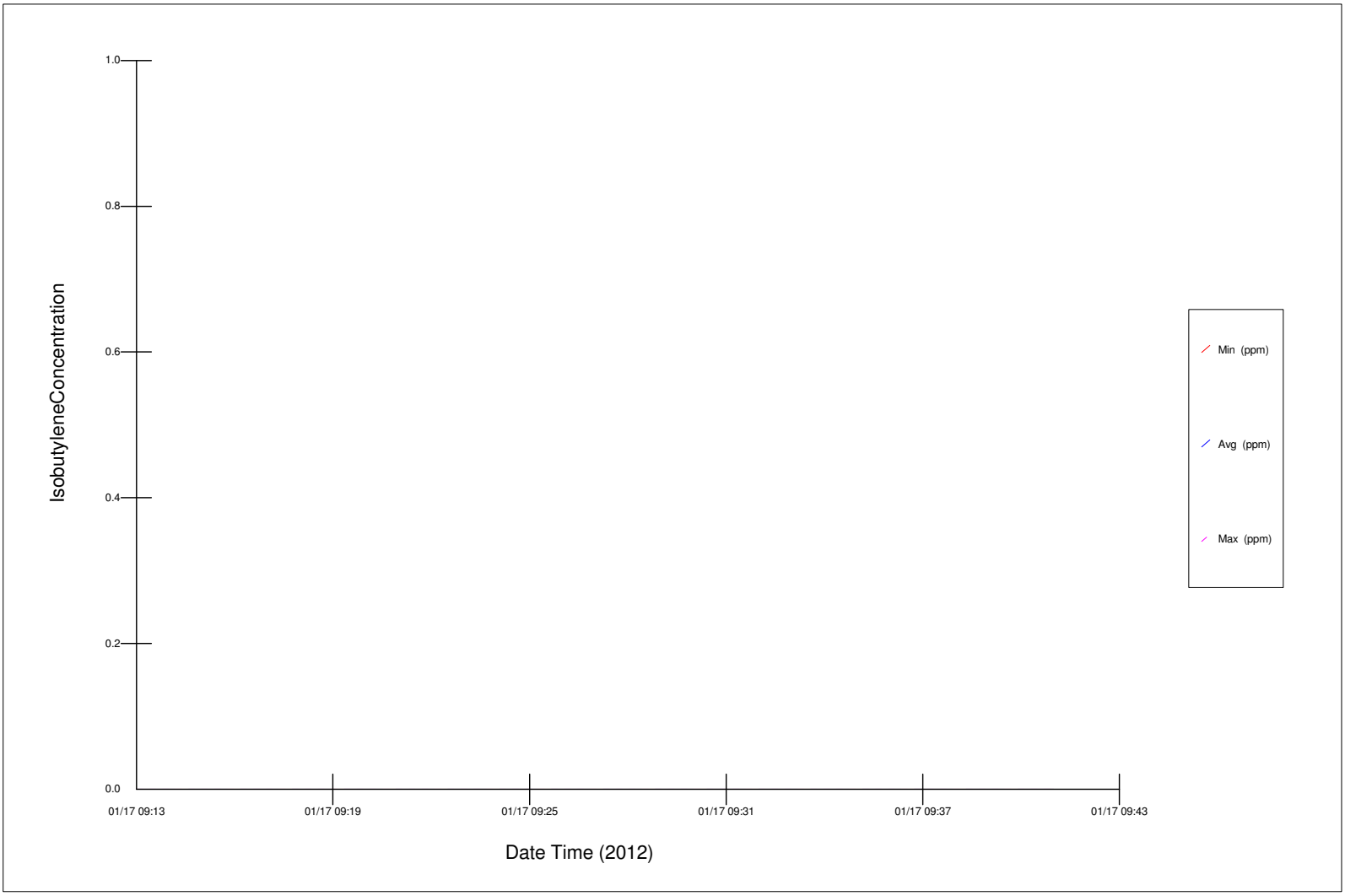
59	01/16/2012 14:42	0.0	0.0	0.0
60	01/16/2012 14:43	0.0	0.0	0.0
61	01/16/2012 14:44	0.0	0.0	0.0
62	01/16/2012 14:45	0.0	0.0	0.0
63	01/16/2012 14:46	0.0	0.0	0.0
64	01/16/2012 14:47	0.0	0.0	0.0
65	01/16/2012 14:48	0.0	0.0	0.0
66	01/16/2012 14:49	0.0	0.0	0.0
67	01/16/2012 14:50	0.0	0.0	0.0
68	01/16/2012 14:51	0.0	0.0	0.0
69	01/16/2012 14:52	0.0	0.0	0.0
70	01/16/2012 14:53	0.0	0.0	0.0
71	01/16/2012 14:54	0.0	0.0	0.0
72	01/16/2012 14:55	0.0	0.0	0.0
73	01/16/2012 14:56	0.0	0.0	0.0
74	01/16/2012 14:57	0.0	0.0	0.0
75	01/16/2012 14:58	0.0	0.0	0.0
76	01/16/2012 14:59	0.0	0.0	0.0
77	01/16/2012 15:00	0.0	0.0	0.0
78	01/16/2012 15:01	0.0	0.0	0.0
79	01/16/2012 15:02	0.0	0.0	0.0
80	01/16/2012 15:03	0.0	0.0	0.0
81	01/16/2012 15:04	0.0	0.0	0.0
82	01/16/2012 15:05	0.0	0.0	0.0
83	01/16/2012 15:06	0.0	0.0	0.0
84	01/16/2012 15:07	0.0	0.0	0.0
85	01/16/2012 15:08	0.0	0.0	0.0
86	01/16/2012 15:09	0.0	0.0	0.0
87	01/16/2012 15:10	0.0	0.0	0.0
88	01/16/2012 15:11	0.0	0.0	0.0
89	01/16/2012 15:12	0.0	0.0	0.0
90	01/16/2012 15:13	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/17 08:40
01/17 08:47
01/17 08:54
01/17 09:01
01/17 09:08
01/17 09:15
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000074
Data Points: 31 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

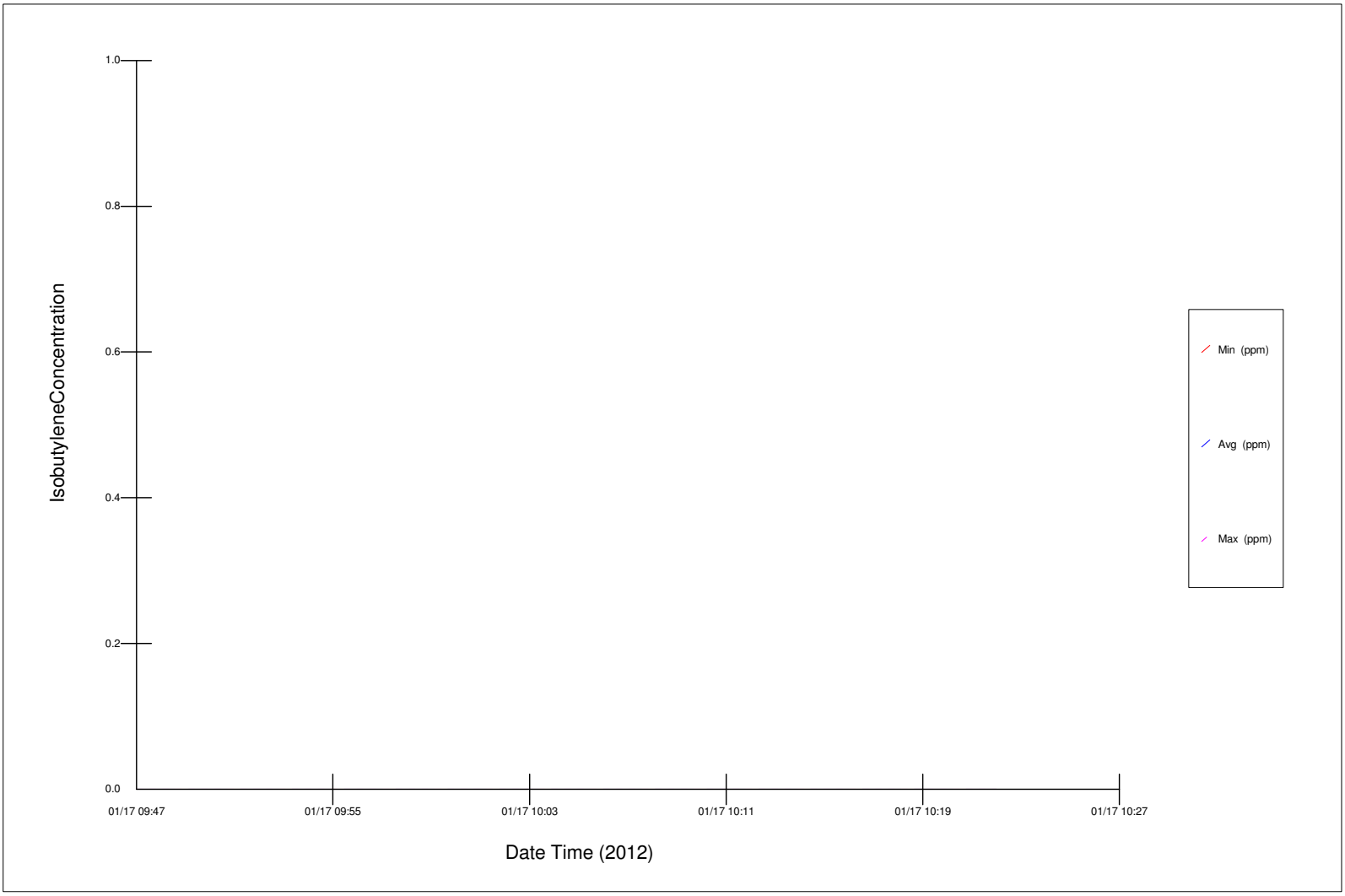
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	08:40	0.0	0.0	0.0
2	01/17/2012	08:41	0.0	0.0	0.0
3	01/17/2012	08:42	0.0	0.0	0.0
4	01/17/2012	08:43	0.0	0.0	0.0
5	01/17/2012	08:44	0.0	0.0	0.0
6	01/17/2012	08:45	0.0	0.0	0.0
7	01/17/2012	08:46	0.0	0.0	0.0
8	01/17/2012	08:47	0.0	0.0	0.0
9	01/17/2012	08:48	0.0	0.0	0.0
10	01/17/2012	08:49	0.0	0.0	0.0
11	01/17/2012	08:50	0.0	0.0	0.0
12	01/17/2012	08:51	0.0	0.0	0.0
13	01/17/2012	08:52	0.0	0.0	0.0
14	01/17/2012	08:53	0.0	0.0	0.0
15	01/17/2012	08:54	0.0	0.0	0.0
16	01/17/2012	08:55	0.0	0.0	0.0
17	01/17/2012	08:56	0.0	0.0	0.0
18	01/17/2012	08:57	0.0	0.0	0.0
19	01/17/2012	08:58	0.0	0.0	0.0
20	01/17/2012	08:59	0.0	0.0	0.0
21	01/17/2012	09:00	0.0	0.0	0.0
22	01/17/2012	09:01	0.0	0.0	0.0
23	01/17/2012	09:02	0.0	0.0	0.0
24	01/17/2012	09:03	0.0	0.0	0.0
25	01/17/2012	09:04	0.0	0.0	0.0
26	01/17/2012	09:05	0.0	0.0	0.0
27	01/17/2012	09:06	0.0	0.0	0.0
28	01/17/2012	09:07	0.0	0.0	0.0
29	01/17/2012	09:08	0.0	0.0	0.0
30	01/17/2012	09:09	0.0	0.0	0.0
31	01/17/2012	09:10	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/17 09:13
01/17 09:19
01/17 09:25
01/17 09:31
01/17 09:37
01/17 09:43
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000075
Data Points: 29 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

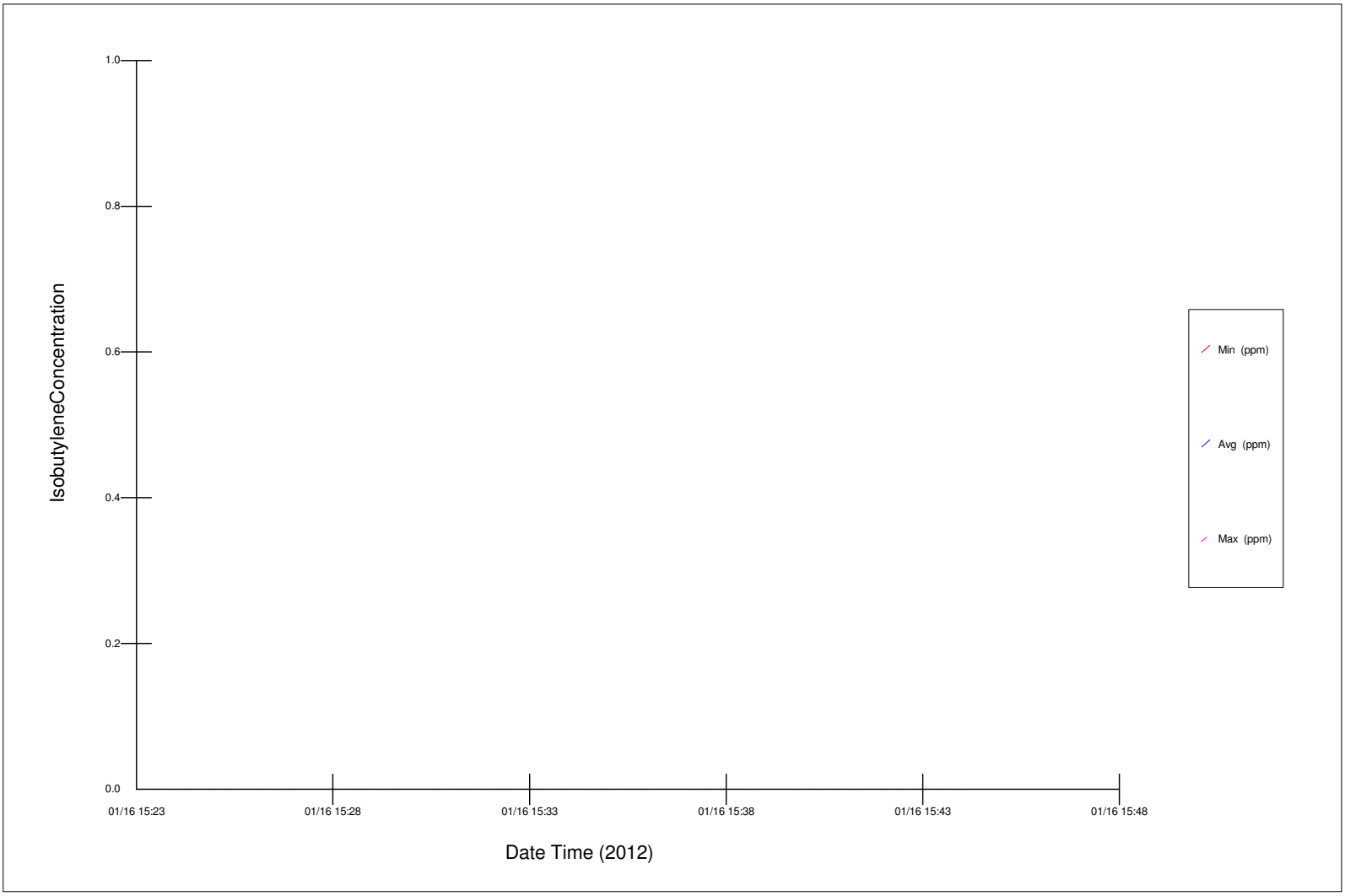
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	09:13	0.0	0.0	0.0
2	01/17/2012	09:14	0.0	0.0	0.0
3	01/17/2012	09:15	0.0	0.0	0.0
4	01/17/2012	09:16	0.0	0.0	0.0
5	01/17/2012	09:17	0.0	0.0	0.0
6	01/17/2012	09:18	0.0	0.0	0.0
7	01/17/2012	09:19	0.0	0.0	0.0
8	01/17/2012	09:20	0.0	0.0	0.0
9	01/17/2012	09:21	0.0	0.0	0.0
10	01/17/2012	09:22	0.0	0.0	0.0
11	01/17/2012	09:23	0.0	0.0	0.0
12	01/17/2012	09:24	0.0	0.0	0.0
13	01/17/2012	09:25	0.0	0.0	0.0
14	01/17/2012	09:26	0.0	0.0	0.0
15	01/17/2012	09:27	0.0	0.0	0.0
16	01/17/2012	09:28	0.0	0.0	0.0
17	01/17/2012	09:29	0.0	0.0	0.0
18	01/17/2012	09:30	0.0	0.0	0.0
19	01/17/2012	09:31	0.0	0.0	0.0
20	01/17/2012	09:32	0.0	0.0	0.0
21	01/17/2012	09:33	0.0	0.0	0.0
22	01/17/2012	09:34	0.0	0.0	0.0
23	01/17/2012	09:35	0.0	0.0	0.0
24	01/17/2012	09:36	0.0	0.0	0.0
25	01/17/2012	09:37	0.0	0.0	0.0
26	01/17/2012	09:38	0.0	0.0	0.0
27	01/17/2012	09:39	0.0	0.0	0.0
28	01/17/2012	09:40	0.0	0.0	0.0
29	01/17/2012	09:41	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/17 09:47
01/17 09:55
01/17 10:03
01/17 10:11
01/17 10:19
01/17 10:27
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000076
Data Points: 36 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

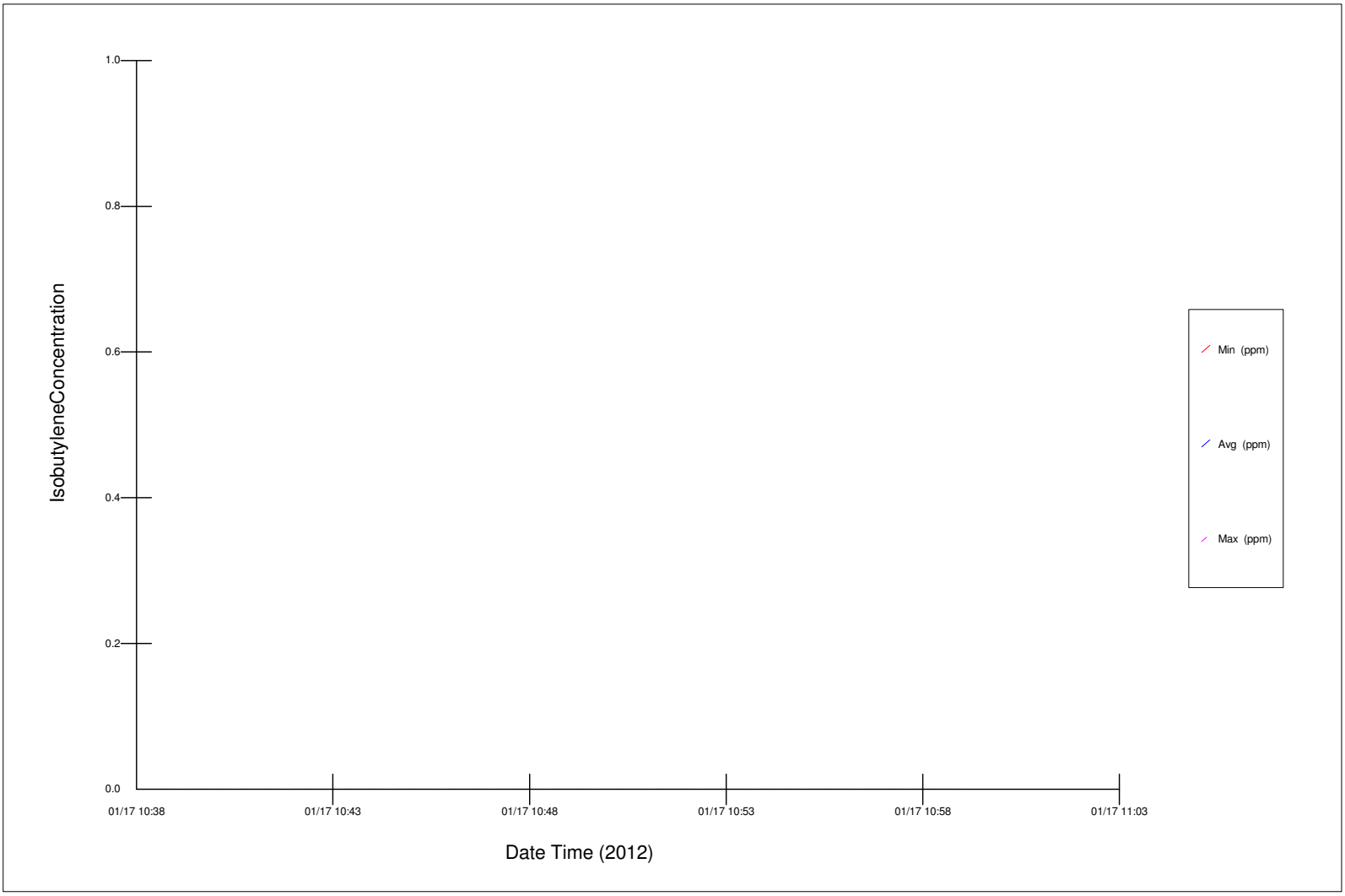
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	09:47	0.0	0.0	0.0
2	01/17/2012	09:48	0.0	0.0	0.0
3	01/17/2012	09:49	0.0	0.0	0.0
4	01/17/2012	09:50	0.0	0.0	0.0
5	01/17/2012	09:51	0.0	0.0	0.0
6	01/17/2012	09:52	0.0	0.0	0.0
7	01/17/2012	09:53	0.0	0.0	0.0
8	01/17/2012	09:54	0.0	0.0	0.0
9	01/17/2012	09:55	0.0	0.0	0.0
10	01/17/2012	09:56	0.0	0.0	0.0
11	01/17/2012	09:57	0.0	0.0	0.0
12	01/17/2012	09:58	0.0	0.0	0.0
13	01/17/2012	09:59	0.0	0.0	0.0
14	01/17/2012	10:00	0.0	0.0	0.0
15	01/17/2012	10:01	0.0	0.0	0.0
16	01/17/2012	10:02	0.0	0.0	0.0
17	01/17/2012	10:03	0.0	0.0	0.0
18	01/17/2012	10:04	0.0	0.0	0.0
19	01/17/2012	10:05	0.0	0.0	0.0
20	01/17/2012	10:06	0.0	0.0	0.0
21	01/17/2012	10:07	0.0	0.0	0.0
22	01/17/2012	10:08	0.0	0.0	0.0
23	01/17/2012	10:09	0.0	0.0	0.0
24	01/17/2012	10:10	0.0	0.0	0.0
25	01/17/2012	10:11	0.0	0.0	0.0
26	01/17/2012	10:12	0.0	0.0	0.0
27	01/17/2012	10:13	0.0	0.0	0.0
28	01/17/2012	10:14	0.0	0.0	0.0
29	01/17/2012	10:15	0.0	0.0	0.0
30	01/17/2012	10:16	0.0	0.0	0.0
31	01/17/2012	10:17	0.0	0.0	0.0
32	01/17/2012	10:18	0.0	0.0	0.0
33	01/17/2012	10:19	0.0	0.0	0.0
34	01/17/2012	10:20	0.0	0.0	0.0
35	01/17/2012	10:21	0.0	0.0	0.0
36	01/17/2012	10:22	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 15:23
01/16 15:28
01/16 15:33
01/16 15:38
01/16 15:43
01/16 15:48
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000072
Data Points: 22 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

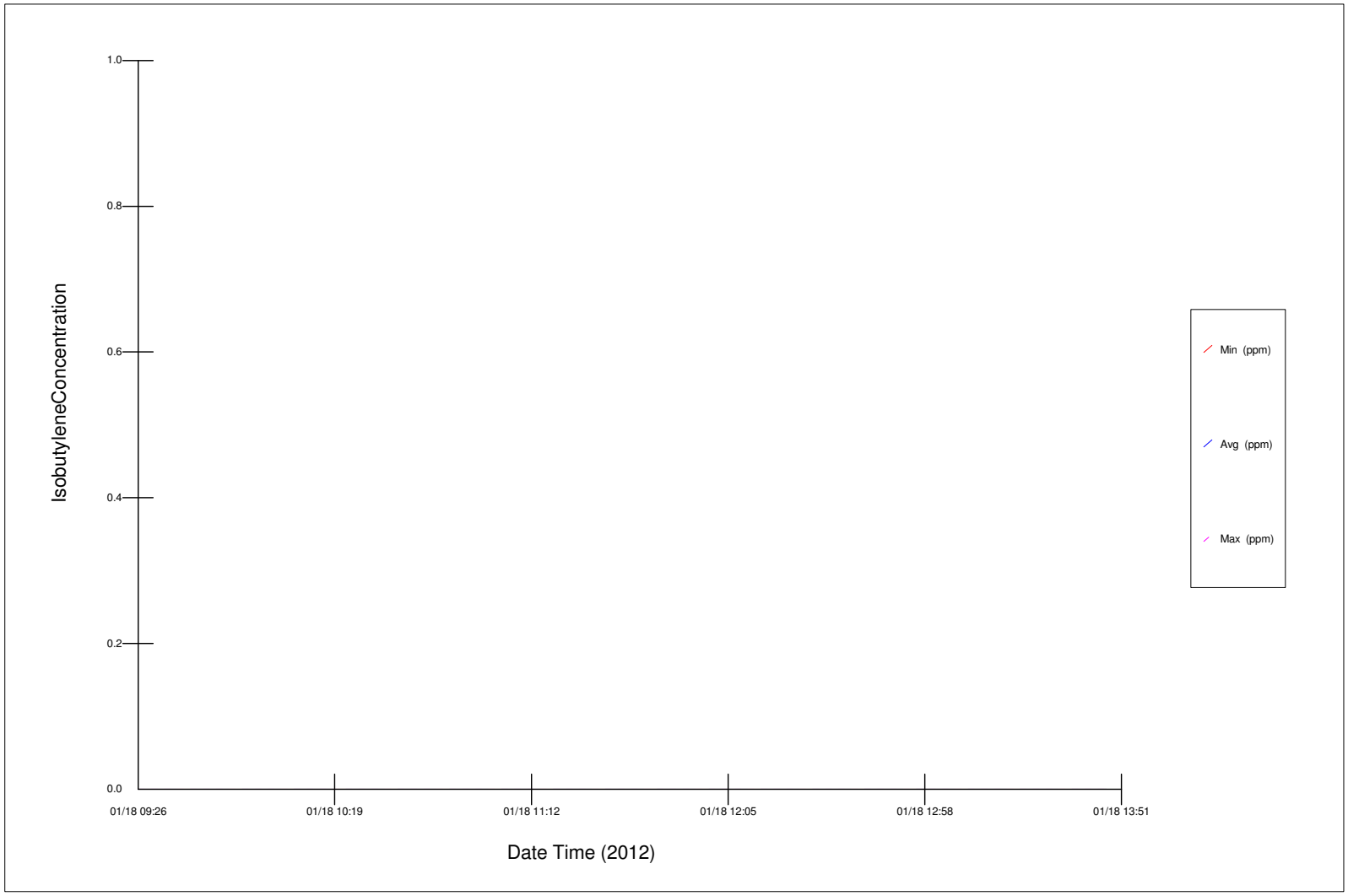
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	15:23	0.0	0.0	0.0
2	01/16/2012	15:24	0.0	0.0	0.0
3	01/16/2012	15:25	0.0	0.0	0.0
4	01/16/2012	15:26	0.0	0.0	0.0
5	01/16/2012	15:27	0.0	0.0	0.0
6	01/16/2012	15:28	0.0	0.0	0.0
7	01/16/2012	15:29	0.0	0.0	0.0
8	01/16/2012	15:30	0.0	0.0	0.0
9	01/16/2012	15:31	0.0	0.0	0.0
10	01/16/2012	15:32	0.0	0.0	0.0
11	01/16/2012	15:33	0.0	0.0	0.0
12	01/16/2012	15:34	0.0	0.0	0.0
13	01/16/2012	15:35	0.0	0.0	0.0
14	01/16/2012	15:36	0.0	0.0	0.0
15	01/16/2012	15:37	0.0	0.0	0.0
16	01/16/2012	15:38	0.0	0.0	0.0
17	01/16/2012	15:39	0.0	0.0	0.0
18	01/16/2012	15:40	0.0	0.0	0.0
19	01/16/2012	15:41	0.0	0.0	0.0
20	01/16/2012	15:42	0.0	0.0	0.0
21	01/16/2012	15:43	0.0	0.0	0.0
22	01/16/2012	15:44	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/17 10:38
01/17 10:43
01/17 10:48
01/17 10:53
01/17 10:58
01/17 11:03
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000077
Data Points: 22 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	10:38	0.0	0.0	0.0
2	01/17/2012	10:39	0.0	0.0	0.0
3	01/17/2012	10:40	0.0	0.0	0.0
4	01/17/2012	10:41	0.0	0.0	0.0
5	01/17/2012	10:42	0.0	0.0	0.0
6	01/17/2012	10:43	0.0	0.0	0.0
7	01/17/2012	10:44	0.0	0.0	0.0
8	01/17/2012	10:45	0.0	0.0	0.0
9	01/17/2012	10:46	0.0	0.0	0.0
10	01/17/2012	10:47	0.0	0.0	0.0
11	01/17/2012	10:48	0.0	0.0	0.0
12	01/17/2012	10:49	0.0	0.0	0.0
13	01/17/2012	10:50	0.0	0.0	0.0
14	01/17/2012	10:51	0.0	0.0	0.0
15	01/17/2012	10:52	0.0	0.0	0.0
16	01/17/2012	10:53	0.0	0.0	0.0
17	01/17/2012	10:54	0.0	0.0	0.0
18	01/17/2012	10:55	0.0	0.0	0.0
19	01/17/2012	10:56	0.0	0.0	0.0
20	01/17/2012	10:57	0.0	0.0	0.0
21	01/17/2012	10:58	0.0	0.0	0.0
22	01/17/2012	10:59	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/18 09:26
01/18 10:19
01/18 11:12
01/18 12:05
01/18 12:58
01/18 13:51
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000080
Data Points: 262 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

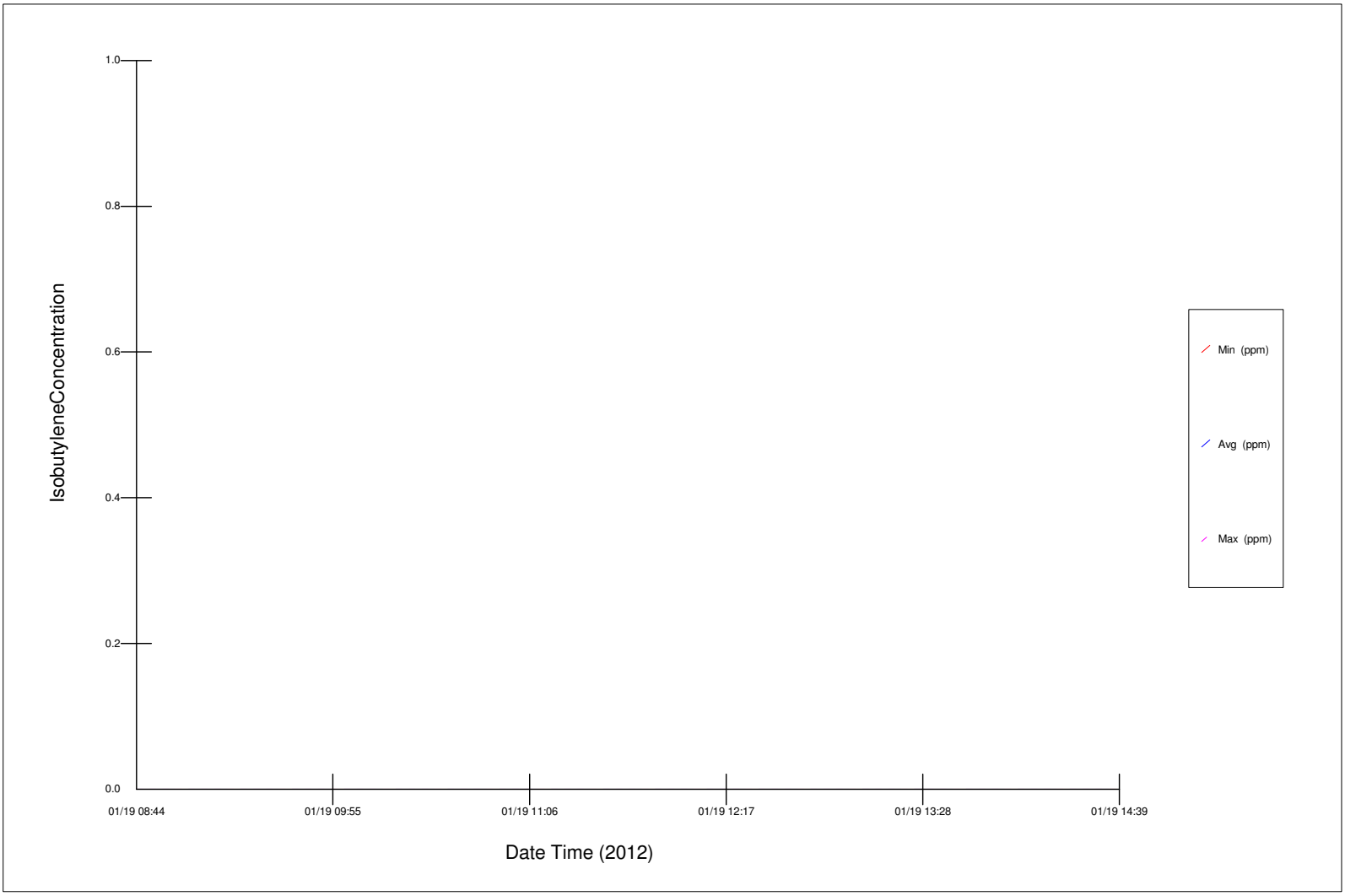
Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/18/2012	09:26	0.0	0.0	0.0
2	01/18/2012	09:27	0.0	0.0	0.0
3	01/18/2012	09:28	0.0	0.0	0.0
4	01/18/2012	09:29	0.0	0.0	0.0
5	01/18/2012	09:30	0.0	0.0	0.0
6	01/18/2012	09:31	0.0	0.0	0.0
7	01/18/2012	09:32	0.0	0.0	0.0
8	01/18/2012	09:33	0.0	0.0	0.0
9	01/18/2012	09:34	0.0	0.0	0.0
10	01/18/2012	09:35	0.0	0.0	0.0
11	01/18/2012	09:36	0.0	0.0	0.0
12	01/18/2012	09:37	0.0	0.0	0.0
13	01/18/2012	09:38	0.0	0.0	0.0
14	01/18/2012	09:39	0.0	0.0	0.0
15	01/18/2012	09:40	0.0	0.0	0.0
16	01/18/2012	09:41	0.0	0.0	0.0
17	01/18/2012	09:42	0.0	0.0	0.0
18	01/18/2012	09:43	0.0	0.0	0.0
19	01/18/2012	09:44	0.0	0.0	0.0
20	01/18/2012	09:45	0.0	0.0	0.0
21	01/18/2012	09:46	0.0	0.0	0.0
22	01/18/2012	09:47	0.0	0.0	0.0
23	01/18/2012	09:48	0.0	0.0	0.0
24	01/18/2012	09:49	0.0	0.0	0.0
25	01/18/2012	09:50	0.0	0.0	0.0
26	01/18/2012	09:51	0.0	0.0	0.0
27	01/18/2012	09:52	0.0	0.0	0.0
28	01/18/2012	09:53	0.0	0.0	0.0
29	01/18/2012	09:54	0.0	0.0	0.0
30	01/18/2012	09:55	0.0	0.0	0.0
31	01/18/2012	09:56	0.0	0.0	0.0
32	01/18/2012	09:57	0.0	0.0	0.0
33	01/18/2012	09:58	0.0	0.0	0.0
34	01/18/2012	09:59	0.0	0.0	0.0
35	01/18/2012	10:00	0.0	0.0	0.0
36	01/18/2012	10:01	0.0	0.0	0.0
37	01/18/2012	10:02	0.0	0.0	0.0
38	01/18/2012	10:03	0.0	0.0	0.0
39	01/18/2012	10:04	0.0	0.0	0.0
40	01/18/2012	10:05	0.0	0.0	0.0
41	01/18/2012	10:06	0.0	0.0	0.0
42	01/18/2012	10:07	0.0	0.0	0.0
43	01/18/2012	10:08	0.0	0.0	0.0
44	01/18/2012	10:09	0.0	0.0	0.0
45	01/18/2012	10:10	0.0	0.0	0.0
46	01/18/2012	10:11	0.0	0.0	0.0
47	01/18/2012	10:12	0.0	0.0	0.0
48	01/18/2012	10:13	0.0	0.0	0.0
49	01/18/2012	10:14	0.0	0.0	0.0
50	01/18/2012	10:15	0.0	0.0	0.0
51	01/18/2012	10:16	0.0	0.0	0.0
52	01/18/2012	10:17	0.0	0.0	0.0
53	01/18/2012	10:18	0.0	0.0	0.0
54	01/18/2012	10:19	0.0	0.0	0.0
55	01/18/2012	10:20	0.0	0.0	0.0
56	01/18/2012	10:21	0.0	0.0	0.0
57	01/18/2012	10:22	0.0	0.0	0.0
58	01/18/2012	10:23	0.0	0.0	0.0

59	01/18/2012 10:24	0.0	0.0	0.0
60	01/18/2012 10:25	0.0	0.0	0.0
61	01/18/2012 10:26	0.0	0.0	0.0
62	01/18/2012 10:27	0.0	0.0	0.0
63	01/18/2012 10:28	0.0	0.0	0.0
64	01/18/2012 10:29	0.0	0.0	0.0
65	01/18/2012 10:30	0.0	0.0	0.0
66	01/18/2012 10:31	0.0	0.0	0.0
67	01/18/2012 10:32	0.0	0.0	0.0
68	01/18/2012 10:33	0.0	0.0	0.0
69	01/18/2012 10:34	0.0	0.0	0.0
70	01/18/2012 10:35	0.0	0.0	0.0
71	01/18/2012 10:36	0.0	0.0	0.0
72	01/18/2012 10:37	0.0	0.0	0.0
73	01/18/2012 10:38	0.0	0.0	0.0
74	01/18/2012 10:39	0.0	0.0	0.0
75	01/18/2012 10:40	0.0	0.0	0.0
76	01/18/2012 10:41	0.0	0.0	0.0
77	01/18/2012 10:42	0.0	0.0	0.0
78	01/18/2012 10:43	0.0	0.0	0.0
79	01/18/2012 10:44	0.0	0.0	0.0
80	01/18/2012 10:45	0.0	0.0	0.0
81	01/18/2012 10:46	0.0	0.0	0.0
82	01/18/2012 10:47	0.0	0.0	0.0
83	01/18/2012 10:48	0.0	0.0	0.0
84	01/18/2012 10:49	0.0	0.0	0.0
85	01/18/2012 10:50	0.0	0.0	0.0
86	01/18/2012 10:51	0.0	0.0	0.0
87	01/18/2012 10:52	0.0	0.0	0.0
88	01/18/2012 10:53	0.0	0.0	0.0
89	01/18/2012 10:54	0.0	0.0	0.0
90	01/18/2012 10:55	0.0	0.0	0.0
91	01/18/2012 10:56	0.0	0.0	0.0
92	01/18/2012 10:57	0.0	0.0	0.0
93	01/18/2012 10:58	0.0	0.0	0.0
94	01/18/2012 10:59	0.0	0.0	0.0
95	01/18/2012 11:00	0.0	0.0	0.0
96	01/18/2012 11:01	0.0	0.0	0.0
97	01/18/2012 11:02	0.0	0.0	0.0
98	01/18/2012 11:03	0.0	0.0	0.0
99	01/18/2012 11:04	0.0	0.0	0.0
100	01/18/2012 11:05	0.0	0.0	0.0
101	01/18/2012 11:06	0.0	0.0	0.0
102	01/18/2012 11:07	0.0	0.0	0.0
103	01/18/2012 11:08	0.0	0.0	0.0
104	01/18/2012 11:09	0.0	0.0	0.0
105	01/18/2012 11:10	0.0	0.0	0.0
106	01/18/2012 11:11	0.0	0.0	0.0
107	01/18/2012 11:12	0.0	0.0	0.0
108	01/18/2012 11:13	0.0	0.0	0.0
109	01/18/2012 11:14	0.0	0.0	0.0
110	01/18/2012 11:15	0.0	0.0	0.0
111	01/18/2012 11:16	0.0	0.0	0.0
112	01/18/2012 11:17	0.0	0.0	0.0
113	01/18/2012 11:18	0.0	0.0	0.0
114	01/18/2012 11:19	0.0	0.0	0.0
115	01/18/2012 11:20	0.0	0.0	0.0
116	01/18/2012 11:21	0.0	0.0	0.0
117	01/18/2012 11:22	0.0	0.0	0.0
118	01/18/2012 11:23	0.0	0.0	0.0
119	01/18/2012 11:24	0.0	0.0	0.0
120	01/18/2012 11:25	0.0	0.0	0.0
121	01/18/2012 11:26	0.0	0.0	0.0
122	01/18/2012 11:27	0.0	0.0	0.0
123	01/18/2012 11:28	0.0	0.0	0.0
124	01/18/2012 11:29	0.0	0.0	0.0
125	01/18/2012 11:30	0.0	0.0	0.0
126	01/18/2012 11:31	0.0	0.0	0.0
127	01/18/2012 11:32	0.0	0.0	0.0

128	01/18/2012 11:33	0.0	0.0	0.0
129	01/18/2012 11:34	0.0	0.0	0.0
130	01/18/2012 11:35	0.0	0.0	0.0
131	01/18/2012 11:36	0.0	0.0	0.0
132	01/18/2012 11:37	0.0	0.0	0.0
133	01/18/2012 11:38	0.0	0.0	0.0
134	01/18/2012 11:39	0.0	0.0	0.0
135	01/18/2012 11:40	0.0	0.0	0.0
136	01/18/2012 11:41	0.0	0.0	0.0
137	01/18/2012 11:42	0.0	0.0	0.0
138	01/18/2012 11:43	0.0	0.0	0.0
139	01/18/2012 11:44	0.0	0.0	0.0
140	01/18/2012 11:45	0.0	0.0	0.0
141	01/18/2012 11:46	0.0	0.0	0.0
142	01/18/2012 11:47	0.0	0.0	0.0
143	01/18/2012 11:48	0.0	0.0	0.0
144	01/18/2012 11:49	0.0	0.0	0.0
145	01/18/2012 11:50	0.0	0.0	0.0
146	01/18/2012 11:51	0.0	0.0	0.0
147	01/18/2012 11:52	0.0	0.0	0.0
148	01/18/2012 11:53	0.0	0.0	0.0
149	01/18/2012 11:54	0.0	0.0	0.0
150	01/18/2012 11:55	0.0	0.0	0.0
151	01/18/2012 11:56	0.0	0.0	0.0
152	01/18/2012 11:57	0.0	0.0	0.0
153	01/18/2012 11:58	0.0	0.0	0.0
154	01/18/2012 11:59	0.0	0.0	0.0
155	01/18/2012 12:00	0.0	0.0	0.0
156	01/18/2012 12:01	0.0	0.0	0.0
157	01/18/2012 12:02	0.0	0.0	0.0
158	01/18/2012 12:03	0.0	0.0	0.0
159	01/18/2012 12:04	0.0	0.0	0.0
160	01/18/2012 12:05	0.0	0.0	0.0
161	01/18/2012 12:06	0.0	0.0	0.0
162	01/18/2012 12:07	0.0	0.0	0.0
163	01/18/2012 12:08	0.0	0.0	0.0
164	01/18/2012 12:09	0.0	0.0	0.0
165	01/18/2012 12:10	0.0	0.0	0.0
166	01/18/2012 12:11	0.0	0.0	0.0
167	01/18/2012 12:12	0.0	0.0	0.0
168	01/18/2012 12:13	0.0	0.0	0.0
169	01/18/2012 12:14	0.0	0.0	0.0
170	01/18/2012 12:15	0.0	0.0	0.0
171	01/18/2012 12:16	0.0	0.0	0.0
172	01/18/2012 12:17	0.0	0.0	0.0
173	01/18/2012 12:18	0.0	0.0	0.0
174	01/18/2012 12:19	0.0	0.0	0.0
175	01/18/2012 12:20	0.0	0.0	0.0
176	01/18/2012 12:21	0.0	0.0	0.0
177	01/18/2012 12:22	0.0	0.0	0.0
178	01/18/2012 12:23	0.0	0.0	0.0
179	01/18/2012 12:24	0.0	0.0	0.0
180	01/18/2012 12:25	0.0	0.0	0.0
181	01/18/2012 12:26	0.0	0.0	0.0
182	01/18/2012 12:27	0.0	0.0	0.0
183	01/18/2012 12:28	0.0	0.0	0.0
184	01/18/2012 12:29	0.0	0.0	0.0
185	01/18/2012 12:30	0.0	0.0	0.0
186	01/18/2012 12:31	0.0	0.0	0.0
187	01/18/2012 12:32	0.0	0.0	0.0
188	01/18/2012 12:33	0.0	0.0	0.0
189	01/18/2012 12:34	0.0	0.0	0.0
190	01/18/2012 12:35	0.0	0.0	0.0
191	01/18/2012 12:36	0.0	0.0	0.0
192	01/18/2012 12:37	0.0	0.0	0.0
193	01/18/2012 12:38	0.0	0.0	0.0
194	01/18/2012 12:39	0.0	0.0	0.0
195	01/18/2012 12:40	0.0	0.0	0.0
196	01/18/2012 12:41	0.0	0.0	0.0

197	01/18/2012 12:42	0.0	0.0	0.0
198	01/18/2012 12:43	0.0	0.0	0.0
199	01/18/2012 12:44	0.0	0.0	0.0
200	01/18/2012 12:45	0.0	0.0	0.0
201	01/18/2012 12:46	0.0	0.0	0.0
202	01/18/2012 12:47	0.0	0.0	0.0
203	01/18/2012 12:48	0.0	0.0	0.0
204	01/18/2012 12:49	0.0	0.0	0.0
205	01/18/2012 12:50	0.0	0.0	0.0
206	01/18/2012 12:51	0.0	0.0	0.0
207	01/18/2012 12:52	0.0	0.0	0.0
208	01/18/2012 12:53	0.0	0.0	0.0
209	01/18/2012 12:54	0.0	0.0	0.0
210	01/18/2012 12:55	0.0	0.0	0.0
211	01/18/2012 12:56	0.0	0.0	0.0
212	01/18/2012 12:57	0.0	0.0	0.0
213	01/18/2012 12:58	0.0	0.0	0.0
214	01/18/2012 12:59	0.0	0.0	0.0
215	01/18/2012 13:00	0.0	0.0	0.0
216	01/18/2012 13:01	0.0	0.0	0.0
217	01/18/2012 13:02	0.0	0.0	0.0
218	01/18/2012 13:03	0.0	0.0	0.0
219	01/18/2012 13:04	0.0	0.0	0.0
220	01/18/2012 13:05	0.0	0.0	0.0
221	01/18/2012 13:06	0.0	0.0	0.0
222	01/18/2012 13:07	0.0	0.0	0.0
223	01/18/2012 13:08	0.0	0.0	0.0
224	01/18/2012 13:09	0.0	0.0	0.0
225	01/18/2012 13:10	0.0	0.0	0.0
226	01/18/2012 13:11	0.0	0.0	0.0
227	01/18/2012 13:12	0.0	0.0	0.0
228	01/18/2012 13:13	0.0	0.0	0.0
229	01/18/2012 13:14	0.0	0.0	0.0
230	01/18/2012 13:15	0.0	0.0	0.0
231	01/18/2012 13:16	0.0	0.0	0.0
232	01/18/2012 13:17	0.0	0.0	0.0
233	01/18/2012 13:18	0.0	0.0	0.0
234	01/18/2012 13:19	0.0	0.0	0.0
235	01/18/2012 13:20	0.0	0.0	0.0
236	01/18/2012 13:21	0.0	0.0	0.0
237	01/18/2012 13:22	0.0	0.0	0.0
238	01/18/2012 13:23	0.0	0.0	0.0
239	01/18/2012 13:24	0.0	0.0	0.0
240	01/18/2012 13:25	0.0	0.0	0.0
241	01/18/2012 13:26	0.0	0.0	0.0
242	01/18/2012 13:27	0.0	0.0	0.0
243	01/18/2012 13:28	0.0	0.0	0.0
244	01/18/2012 13:29	0.0	0.0	0.0
245	01/18/2012 13:30	0.0	0.0	0.0
246	01/18/2012 13:31	0.0	0.0	0.0
247	01/18/2012 13:32	0.0	0.0	0.0
248	01/18/2012 13:33	0.0	0.0	0.0
249	01/18/2012 13:34	0.0	0.0	0.0
250	01/18/2012 13:35	0.0	0.0	0.0
251	01/18/2012 13:36	0.0	0.0	0.0
252	01/18/2012 13:37	0.0	0.0	0.0
253	01/18/2012 13:38	0.0	0.0	0.0
254	01/18/2012 13:39	0.0	0.0	0.0
255	01/18/2012 13:40	0.0	0.0	0.0
256	01/18/2012 13:41	0.0	0.0	0.0
257	01/18/2012 13:42	0.0	0.0	0.0
258	01/18/2012 13:43	0.0	0.0	0.0
259	01/18/2012 13:44	0.0	0.0	0.0
260	01/18/2012 13:45	0.0	0.0	0.0
261	01/18/2012 13:46	0.0	0.0	0.0
262	01/18/2012 13:47	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/19 08:44
01/19 09:55
01/19 11:06
01/19 12:17
01/19 13:28
01/19 14:39
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000082
Data Points: 355 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/19/2012	08:44	0.0	0.0	0.0
2	01/19/2012	08:45	0.0	0.0	0.0
3	01/19/2012	08:46	0.0	0.0	0.0
4	01/19/2012	08:47	0.0	0.0	0.0
5	01/19/2012	08:48	0.0	0.0	0.0
6	01/19/2012	08:49	0.0	0.0	0.0
7	01/19/2012	08:50	0.0	0.0	0.0
8	01/19/2012	08:51	0.0	0.0	0.0
9	01/19/2012	08:52	0.0	0.0	0.0
10	01/19/2012	08:53	0.0	0.0	0.0
11	01/19/2012	08:54	0.0	0.0	0.0
12	01/19/2012	08:55	0.0	0.0	0.0
13	01/19/2012	08:56	0.0	0.0	0.0
14	01/19/2012	08:57	0.0	0.0	0.0
15	01/19/2012	08:58	0.0	0.0	0.0
16	01/19/2012	08:59	0.0	0.0	0.0
17	01/19/2012	09:00	0.0	0.0	0.0
18	01/19/2012	09:01	0.0	0.0	0.0
19	01/19/2012	09:02	0.0	0.0	0.0
20	01/19/2012	09:03	0.0	0.0	0.0
21	01/19/2012	09:04	0.0	0.0	0.0
22	01/19/2012	09:05	0.0	0.0	0.0
23	01/19/2012	09:06	0.0	0.0	0.0
24	01/19/2012	09:07	0.0	0.0	0.0
25	01/19/2012	09:08	0.0	0.0	0.0
26	01/19/2012	09:09	0.0	0.0	0.0
27	01/19/2012	09:10	0.0	0.0	0.0
28	01/19/2012	09:11	0.0	0.0	0.0
29	01/19/2012	09:12	0.0	0.0	0.0
30	01/19/2012	09:13	0.0	0.0	0.0
31	01/19/2012	09:14	0.0	0.0	0.0
32	01/19/2012	09:15	0.0	0.0	0.0
33	01/19/2012	09:16	0.0	0.0	0.0
34	01/19/2012	09:17	0.0	0.0	0.0
35	01/19/2012	09:18	0.0	0.0	0.0
36	01/19/2012	09:19	0.0	0.0	0.0
37	01/19/2012	09:20	0.0	0.0	0.0
38	01/19/2012	09:21	0.0	0.0	0.0
39	01/19/2012	09:22	0.0	0.0	0.0
40	01/19/2012	09:23	0.0	0.0	0.0
41	01/19/2012	09:24	0.0	0.0	0.0
42	01/19/2012	09:25	0.0	0.0	0.0
43	01/19/2012	09:26	0.0	0.0	0.0
44	01/19/2012	09:27	0.0	0.0	0.0
45	01/19/2012	09:28	0.0	0.0	0.0
46	01/19/2012	09:29	0.0	0.0	0.0
47	01/19/2012	09:30	0.0	0.0	0.0
48	01/19/2012	09:31	0.0	0.0	0.0
49	01/19/2012	09:32	0.0	0.0	0.0
50	01/19/2012	09:33	0.0	0.0	0.0
51	01/19/2012	09:34	0.0	0.0	0.0
52	01/19/2012	09:35	0.0	0.0	0.0
53	01/19/2012	09:36	0.0	0.0	0.0
54	01/19/2012	09:37	0.0	0.0	0.0
55	01/19/2012	09:38	0.0	0.0	0.0
56	01/19/2012	09:39	0.0	0.0	0.0
57	01/19/2012	09:40	0.0	0.0	0.0
58	01/19/2012	09:41	0.0	0.0	0.0

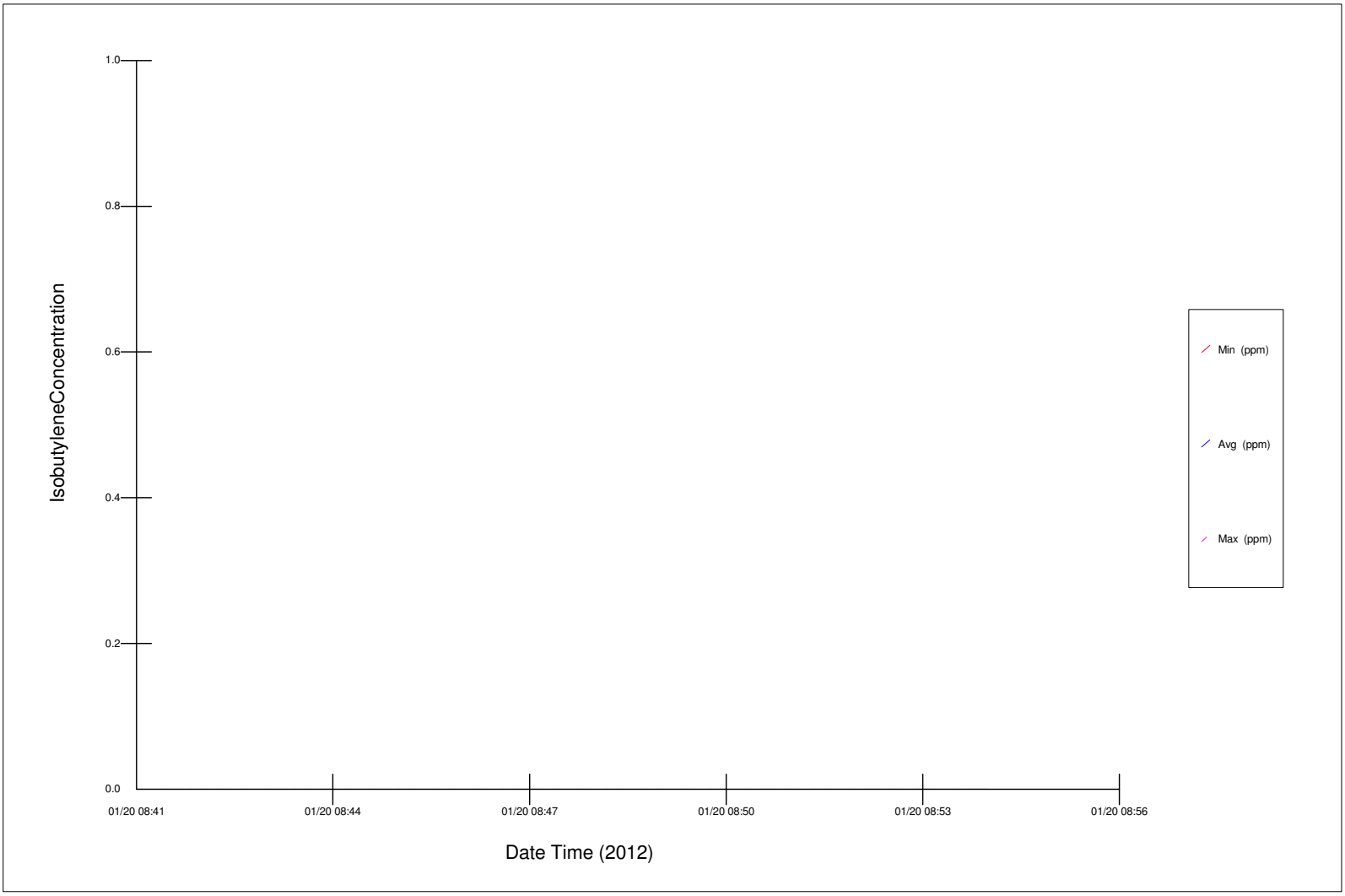
59	01/19/2012 09:42	0.0	0.0	0.0
60	01/19/2012 09:43	0.0	0.0	0.0
61	01/19/2012 09:44	0.0	0.0	0.0
62	01/19/2012 09:45	0.0	0.0	0.0
63	01/19/2012 09:46	0.0	0.0	0.0
64	01/19/2012 09:47	0.0	0.0	0.0
65	01/19/2012 09:48	0.0	0.0	0.0
66	01/19/2012 09:49	0.0	0.0	0.0
67	01/19/2012 09:50	0.0	0.0	0.0
68	01/19/2012 09:51	0.0	0.0	0.0
69	01/19/2012 09:52	0.0	0.0	0.0
70	01/19/2012 09:53	0.0	0.0	0.0
71	01/19/2012 09:54	0.0	0.0	0.0
72	01/19/2012 09:55	0.0	0.0	0.0
73	01/19/2012 09:56	0.0	0.0	0.0
74	01/19/2012 09:57	0.0	0.0	0.0
75	01/19/2012 09:58	0.0	0.0	0.0
76	01/19/2012 09:59	0.0	0.0	0.0
77	01/19/2012 10:00	0.0	0.0	0.0
78	01/19/2012 10:01	0.0	0.0	0.0
79	01/19/2012 10:02	0.0	0.0	0.0
80	01/19/2012 10:03	0.0	0.0	0.0
81	01/19/2012 10:04	0.0	0.0	0.0
82	01/19/2012 10:05	0.0	0.0	0.0
83	01/19/2012 10:06	0.0	0.0	0.0
84	01/19/2012 10:07	0.0	0.0	0.0
85	01/19/2012 10:08	0.0	0.0	0.0
86	01/19/2012 10:09	0.0	0.0	0.0
87	01/19/2012 10:10	0.0	0.0	0.0
88	01/19/2012 10:11	0.0	0.0	0.0
89	01/19/2012 10:12	0.0	0.0	0.0
90	01/19/2012 10:13	0.0	0.0	0.0
91	01/19/2012 10:14	0.0	0.0	0.0
92	01/19/2012 10:15	0.0	0.0	0.0
93	01/19/2012 10:16	0.0	0.0	0.0
94	01/19/2012 10:17	0.0	0.0	0.0
95	01/19/2012 10:18	0.0	0.0	0.0
96	01/19/2012 10:19	0.0	0.0	0.0
97	01/19/2012 10:20	0.0	0.0	0.0
98	01/19/2012 10:21	0.0	0.0	0.0
99	01/19/2012 10:22	0.0	0.0	0.0
100	01/19/2012 10:23	0.0	0.0	0.0
101	01/19/2012 10:24	0.0	0.0	0.0
102	01/19/2012 10:25	0.0	0.0	0.0
103	01/19/2012 10:26	0.0	0.0	0.0
104	01/19/2012 10:27	0.0	0.0	0.0
105	01/19/2012 10:28	0.0	0.0	0.0
106	01/19/2012 10:29	0.0	0.0	0.0
107	01/19/2012 10:30	0.0	0.0	0.0
108	01/19/2012 10:31	0.0	0.0	0.0
109	01/19/2012 10:32	0.0	0.0	0.0
110	01/19/2012 10:33	0.0	0.0	0.0
111	01/19/2012 10:34	0.0	0.0	0.0
112	01/19/2012 10:35	0.0	0.0	0.0
113	01/19/2012 10:36	0.0	0.0	0.0
114	01/19/2012 10:37	0.0	0.0	0.0
115	01/19/2012 10:38	0.0	0.0	0.0
116	01/19/2012 10:39	0.0	0.0	0.0
117	01/19/2012 10:40	0.0	0.0	0.0
118	01/19/2012 10:41	0.0	0.0	0.0
119	01/19/2012 10:42	0.0	0.0	0.0
120	01/19/2012 10:43	0.0	0.0	0.0
121	01/19/2012 10:44	0.0	0.0	0.0
122	01/19/2012 10:45	0.0	0.0	0.0
123	01/19/2012 10:46	0.0	0.0	0.0
124	01/19/2012 10:47	0.0	0.0	0.0
125	01/19/2012 10:48	0.0	0.0	0.0
126	01/19/2012 10:49	0.0	0.0	0.0
127	01/19/2012 10:50	0.0	0.0	0.0

128	01/19/2012 10:51	0.0	0.0	0.0
129	01/19/2012 10:52	0.0	0.0	0.0
130	01/19/2012 10:53	0.0	0.0	0.0
131	01/19/2012 10:54	0.0	0.0	0.0
132	01/19/2012 10:55	0.0	0.0	0.0
133	01/19/2012 10:56	0.0	0.0	0.0
134	01/19/2012 10:57	0.0	0.0	0.0
135	01/19/2012 10:58	0.0	0.0	0.0
136	01/19/2012 10:59	0.0	0.0	0.0
137	01/19/2012 11:00	0.0	0.0	0.0
138	01/19/2012 11:01	0.0	0.0	0.0
139	01/19/2012 11:02	0.0	0.0	0.0
140	01/19/2012 11:03	0.0	0.0	0.0
141	01/19/2012 11:04	0.0	0.0	0.0
142	01/19/2012 11:05	0.0	0.0	0.0
143	01/19/2012 11:06	0.0	0.0	0.0
144	01/19/2012 11:07	0.0	0.0	0.0
145	01/19/2012 11:08	0.0	0.0	0.0
146	01/19/2012 11:09	0.0	0.0	0.0
147	01/19/2012 11:10	0.0	0.0	0.0
148	01/19/2012 11:11	0.0	0.0	0.0
149	01/19/2012 11:12	0.0	0.0	0.0
150	01/19/2012 11:13	0.0	0.0	0.0
151	01/19/2012 11:14	0.0	0.0	0.0
152	01/19/2012 11:15	0.0	0.0	0.0
153	01/19/2012 11:16	0.0	0.0	0.0
154	01/19/2012 11:17	0.0	0.0	0.0
155	01/19/2012 11:18	0.0	0.0	0.0
156	01/19/2012 11:19	0.0	0.0	0.0
157	01/19/2012 11:20	0.0	0.0	0.0
158	01/19/2012 11:21	0.0	0.0	0.0
159	01/19/2012 11:22	0.0	0.0	0.0
160	01/19/2012 11:23	0.0	0.0	0.0
161	01/19/2012 11:24	0.0	0.0	0.0
162	01/19/2012 11:25	0.0	0.0	0.0
163	01/19/2012 11:26	0.0	0.0	0.0
164	01/19/2012 11:27	0.0	0.0	0.0
165	01/19/2012 11:28	0.0	0.0	0.0
166	01/19/2012 11:29	0.0	0.0	0.0
167	01/19/2012 11:30	0.0	0.0	0.0
168	01/19/2012 11:31	0.0	0.0	0.0
169	01/19/2012 11:32	0.0	0.0	0.0
170	01/19/2012 11:33	0.0	0.0	0.0
171	01/19/2012 11:34	0.0	0.0	0.0
172	01/19/2012 11:35	0.0	0.0	0.0
173	01/19/2012 11:36	0.0	0.0	0.0
174	01/19/2012 11:37	0.0	0.0	0.0
175	01/19/2012 11:38	0.0	0.0	0.0
176	01/19/2012 11:39	0.0	0.0	0.0
177	01/19/2012 11:40	0.0	0.0	0.0
178	01/19/2012 11:41	0.0	0.0	0.0
179	01/19/2012 11:42	0.0	0.0	0.0
180	01/19/2012 11:43	0.0	0.0	0.0
181	01/19/2012 11:44	0.0	0.0	0.0
182	01/19/2012 11:45	0.0	0.0	0.0
183	01/19/2012 11:46	0.0	0.0	0.0
184	01/19/2012 11:47	0.0	0.0	0.0
185	01/19/2012 11:48	0.0	0.0	0.0
186	01/19/2012 11:49	0.0	0.0	0.0
187	01/19/2012 11:50	0.0	0.0	0.0
188	01/19/2012 11:51	0.0	0.0	0.0
189	01/19/2012 11:52	0.0	0.0	0.0
190	01/19/2012 11:53	0.0	0.0	0.0
191	01/19/2012 11:54	0.0	0.0	0.0
192	01/19/2012 11:55	0.0	0.0	0.0
193	01/19/2012 11:56	0.0	0.0	0.0
194	01/19/2012 11:57	0.0	0.0	0.0
195	01/19/2012 11:58	0.0	0.0	0.0
196	01/19/2012 11:59	0.0	0.0	0.0

197	01/19/2012 12:00	0.0	0.0	0.0
198	01/19/2012 12:01	0.0	0.0	0.0
199	01/19/2012 12:02	0.0	0.0	0.0
200	01/19/2012 12:03	0.0	0.0	0.0
201	01/19/2012 12:04	0.0	0.0	0.0
202	01/19/2012 12:05	0.0	0.0	0.0
203	01/19/2012 12:06	0.0	0.0	0.0
204	01/19/2012 12:07	0.0	0.0	0.0
205	01/19/2012 12:08	0.0	0.0	0.0
206	01/19/2012 12:09	0.0	0.0	0.0
207	01/19/2012 12:10	0.0	0.0	0.0
208	01/19/2012 12:11	0.0	0.0	0.0
209	01/19/2012 12:12	0.0	0.0	0.0
210	01/19/2012 12:13	0.0	0.0	0.0
211	01/19/2012 12:14	0.0	0.0	0.0
212	01/19/2012 12:15	0.0	0.0	0.0
213	01/19/2012 12:16	0.0	0.0	0.0
214	01/19/2012 12:17	0.0	0.0	0.0
215	01/19/2012 12:18	0.0	0.0	0.0
216	01/19/2012 12:19	0.0	0.0	0.0
217	01/19/2012 12:20	0.0	0.0	0.0
218	01/19/2012 12:21	0.0	0.0	0.0
219	01/19/2012 12:22	0.0	0.0	0.0
220	01/19/2012 12:23	0.0	0.0	0.0
221	01/19/2012 12:24	0.0	0.0	0.0
222	01/19/2012 12:25	0.0	0.0	0.0
223	01/19/2012 12:26	0.0	0.0	0.0
224	01/19/2012 12:27	0.0	0.0	0.0
225	01/19/2012 12:28	0.0	0.0	0.0
226	01/19/2012 12:29	0.0	0.0	0.0
227	01/19/2012 12:30	0.0	0.0	0.0
228	01/19/2012 12:31	0.0	0.0	0.0
229	01/19/2012 12:32	0.0	0.0	0.0
230	01/19/2012 12:33	0.0	0.0	0.0
231	01/19/2012 12:34	0.0	0.0	0.0
232	01/19/2012 12:35	0.0	0.0	0.0
233	01/19/2012 12:36	0.0	0.0	0.0
234	01/19/2012 12:37	0.0	0.0	0.0
235	01/19/2012 12:38	0.0	0.0	0.0
236	01/19/2012 12:39	0.0	0.0	0.0
237	01/19/2012 12:40	0.0	0.0	0.0
238	01/19/2012 12:41	0.0	0.0	0.0
239	01/19/2012 12:42	0.0	0.0	0.0
240	01/19/2012 12:43	0.0	0.0	0.0
241	01/19/2012 12:44	0.0	0.0	0.0
242	01/19/2012 12:45	0.0	0.0	0.0
243	01/19/2012 12:46	0.0	0.0	0.0
244	01/19/2012 12:47	0.0	0.0	0.0
245	01/19/2012 12:48	0.0	0.0	0.0
246	01/19/2012 12:49	0.0	0.0	0.0
247	01/19/2012 12:50	0.0	0.0	0.0
248	01/19/2012 12:51	0.0	0.0	0.0
249	01/19/2012 12:52	0.0	0.0	0.0
250	01/19/2012 12:53	0.0	0.0	0.0
251	01/19/2012 12:54	0.0	0.0	0.0
252	01/19/2012 12:55	0.0	0.0	0.0
253	01/19/2012 12:56	0.0	0.0	0.0
254	01/19/2012 12:57	0.0	0.0	0.0
255	01/19/2012 12:58	0.0	0.0	0.0
256	01/19/2012 12:59	0.0	0.0	0.0
257	01/19/2012 13:00	0.0	0.0	0.0
258	01/19/2012 13:01	0.0	0.0	0.0
259	01/19/2012 13:02	0.0	0.0	0.0
260	01/19/2012 13:03	0.0	0.0	0.0
261	01/19/2012 13:04	0.0	0.0	0.0
262	01/19/2012 13:05	0.0	0.0	0.0
263	01/19/2012 13:06	0.0	0.0	0.0
264	01/19/2012 13:07	0.0	0.0	0.0
265	01/19/2012 13:08	0.0	0.0	0.0

266	01/19/2012 13:09	0.0	0.0	0.0
267	01/19/2012 13:10	0.0	0.0	0.0
268	01/19/2012 13:11	0.0	0.0	0.0
269	01/19/2012 13:12	0.0	0.0	0.0
270	01/19/2012 13:13	0.0	0.0	0.0
271	01/19/2012 13:14	0.0	0.0	0.0
272	01/19/2012 13:15	0.0	0.0	0.0
273	01/19/2012 13:16	0.0	0.0	0.0
274	01/19/2012 13:17	0.0	0.0	0.0
275	01/19/2012 13:18	0.0	0.0	0.0
276	01/19/2012 13:19	0.0	0.0	0.0
277	01/19/2012 13:20	0.0	0.0	0.0
278	01/19/2012 13:21	0.0	0.0	0.0
279	01/19/2012 13:22	0.0	0.0	0.0
280	01/19/2012 13:23	0.0	0.0	0.0
281	01/19/2012 13:24	0.0	0.0	0.0
282	01/19/2012 13:25	0.0	0.0	0.0
283	01/19/2012 13:26	0.0	0.0	0.0
284	01/19/2012 13:27	0.0	0.0	0.0
285	01/19/2012 13:28	0.0	0.0	0.0
286	01/19/2012 13:29	0.0	0.0	0.0
287	01/19/2012 13:30	0.0	0.0	0.0
288	01/19/2012 13:31	0.0	0.0	0.0
289	01/19/2012 13:32	0.0	0.0	0.0
290	01/19/2012 13:33	0.0	0.0	0.0
291	01/19/2012 13:34	0.0	0.0	0.0
292	01/19/2012 13:35	0.0	0.0	0.0
293	01/19/2012 13:36	0.0	0.0	0.0
294	01/19/2012 13:37	0.0	0.0	0.0
295	01/19/2012 13:38	0.0	0.0	0.0
296	01/19/2012 13:39	0.0	0.0	0.0
297	01/19/2012 13:40	0.0	0.0	0.0
298	01/19/2012 13:41	0.0	0.0	0.0
299	01/19/2012 13:42	0.0	0.0	0.0
300	01/19/2012 13:43	0.0	0.0	0.0
301	01/19/2012 13:44	0.0	0.0	0.0
302	01/19/2012 13:45	0.0	0.0	0.0
303	01/19/2012 13:46	0.0	0.0	0.0
304	01/19/2012 13:47	0.0	0.0	0.0
305	01/19/2012 13:48	0.0	0.0	0.0
306	01/19/2012 13:49	0.0	0.0	0.0
307	01/19/2012 13:50	0.0	0.0	0.0
308	01/19/2012 13:51	0.0	0.0	0.0
309	01/19/2012 13:52	0.0	0.0	0.0
310	01/19/2012 13:53	0.0	0.0	0.0
311	01/19/2012 13:54	0.0	0.0	0.0
312	01/19/2012 13:55	0.0	0.0	0.0
313	01/19/2012 13:56	0.0	0.0	0.0
314	01/19/2012 13:57	0.0	0.0	0.0
315	01/19/2012 13:58	0.0	0.0	0.0
316	01/19/2012 13:59	0.0	0.0	0.0
317	01/19/2012 14:00	0.0	0.0	0.0
318	01/19/2012 14:01	0.0	0.0	0.0
319	01/19/2012 14:02	0.0	0.0	0.0
320	01/19/2012 14:03	0.0	0.0	0.0
321	01/19/2012 14:04	0.0	0.0	0.0
322	01/19/2012 14:05	0.0	0.0	0.0
323	01/19/2012 14:06	0.0	0.0	0.0
324	01/19/2012 14:07	0.0	0.0	0.0
325	01/19/2012 14:08	0.0	0.0	0.0
326	01/19/2012 14:09	0.0	0.0	0.0
327	01/19/2012 14:10	0.0	0.0	0.0
328	01/19/2012 14:11	0.0	0.0	0.0
329	01/19/2012 14:12	0.0	0.0	0.0
330	01/19/2012 14:13	0.0	0.0	0.0
331	01/19/2012 14:14	0.0	0.0	0.0
332	01/19/2012 14:15	0.0	0.0	0.0
333	01/19/2012 14:16	0.0	0.0	0.0
334	01/19/2012 14:17	0.0	0.0	0.0

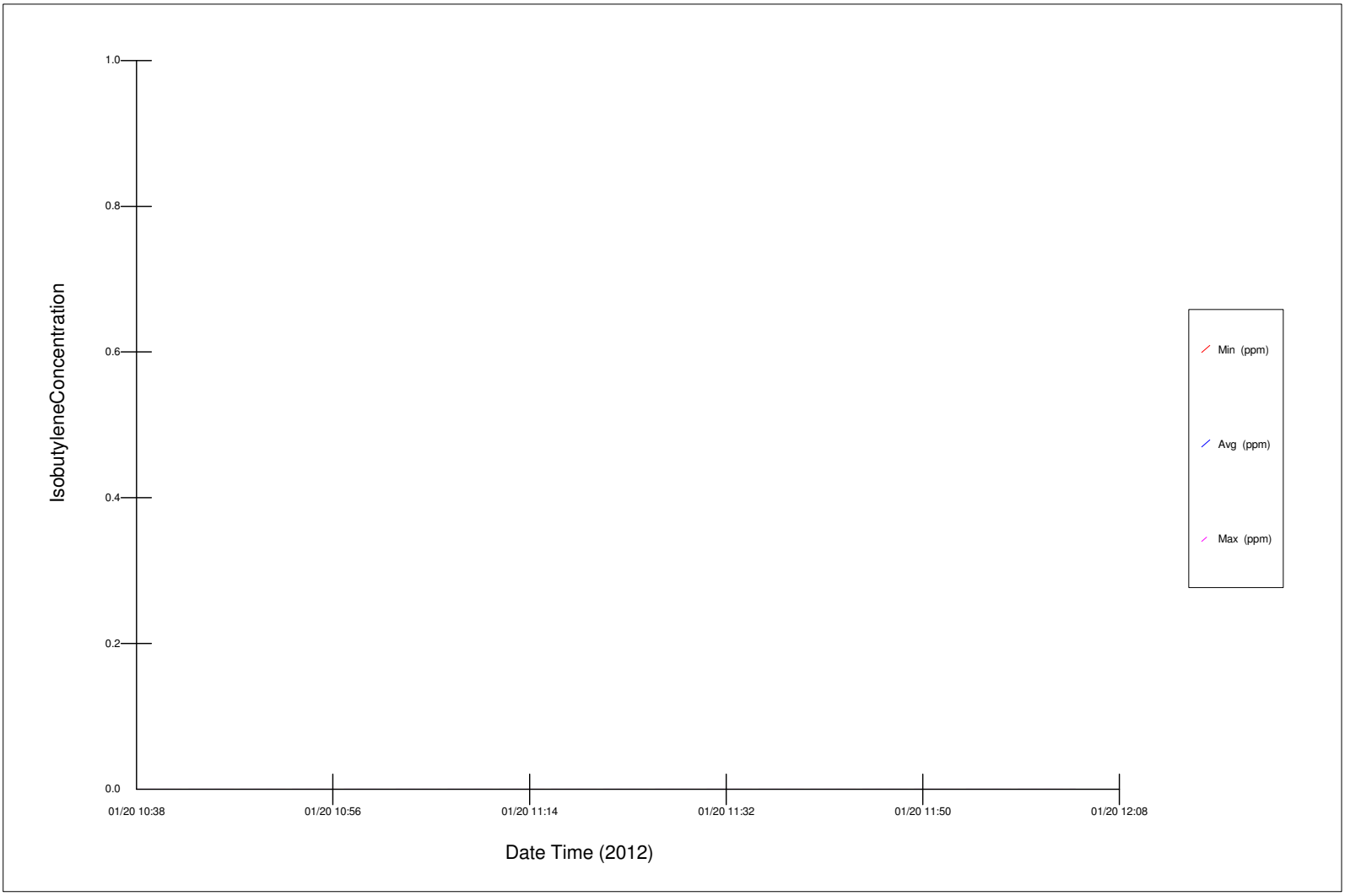
335	01/19/2012 14:18	0.0	0.0	0.0
336	01/19/2012 14:19	0.0	0.0	0.0
337	01/19/2012 14:20	0.0	0.0	0.0
338	01/19/2012 14:21	0.0	0.0	0.0
339	01/19/2012 14:22	0.0	0.0	0.0
340	01/19/2012 14:23	0.0	0.0	0.0
341	01/19/2012 14:24	0.0	0.0	0.0
342	01/19/2012 14:25	0.0	0.0	0.0
343	01/19/2012 14:26	0.0	0.0	0.0
344	01/19/2012 14:27	0.0	0.0	0.0
345	01/19/2012 14:28	0.0	0.0	0.0
346	01/19/2012 14:29	0.0	0.0	0.0
347	01/19/2012 14:30	0.0	0.0	0.0
348	01/19/2012 14:31	0.0	0.0	0.0
349	01/19/2012 14:32	0.0	0.0	0.0
350	01/19/2012 14:33	0.0	0.0	0.0
351	01/19/2012 14:34	0.0	0.0	0.0
352	01/19/2012 14:35	0.0	0.0	0.0
353	01/19/2012 14:36	0.0	0.0	0.0
354	01/19/2012 14:37	0.0	0.0	0.0
355	01/19/2012 14:38	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/20 08:41
01/20 08:44
01/20 08:47
01/20 08:50
01/20 08:53
01/20 08:56
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000084
Data Points: 14 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/20/2012	08:41	0.0	0.0	0.0
2	01/20/2012	08:42	0.0	0.0	0.0
3	01/20/2012	08:43	0.0	0.0	0.0
4	01/20/2012	08:44	0.0	0.0	0.0
5	01/20/2012	08:45	0.0	0.0	0.0
6	01/20/2012	08:46	0.0	0.0	0.0
7	01/20/2012	08:47	0.0	0.0	0.0
8	01/20/2012	08:48	0.0	0.0	0.0
9	01/20/2012	08:49	0.0	0.0	0.0
10	01/20/2012	08:50	0.0	0.0	0.0
11	01/20/2012	08:51	0.0	0.0	0.0
12	01/20/2012	08:52	0.0	0.0	0.0
13	01/20/2012	08:53	0.0	0.0	0.0
14	01/20/2012	08:54	0.0	0.0	0.0

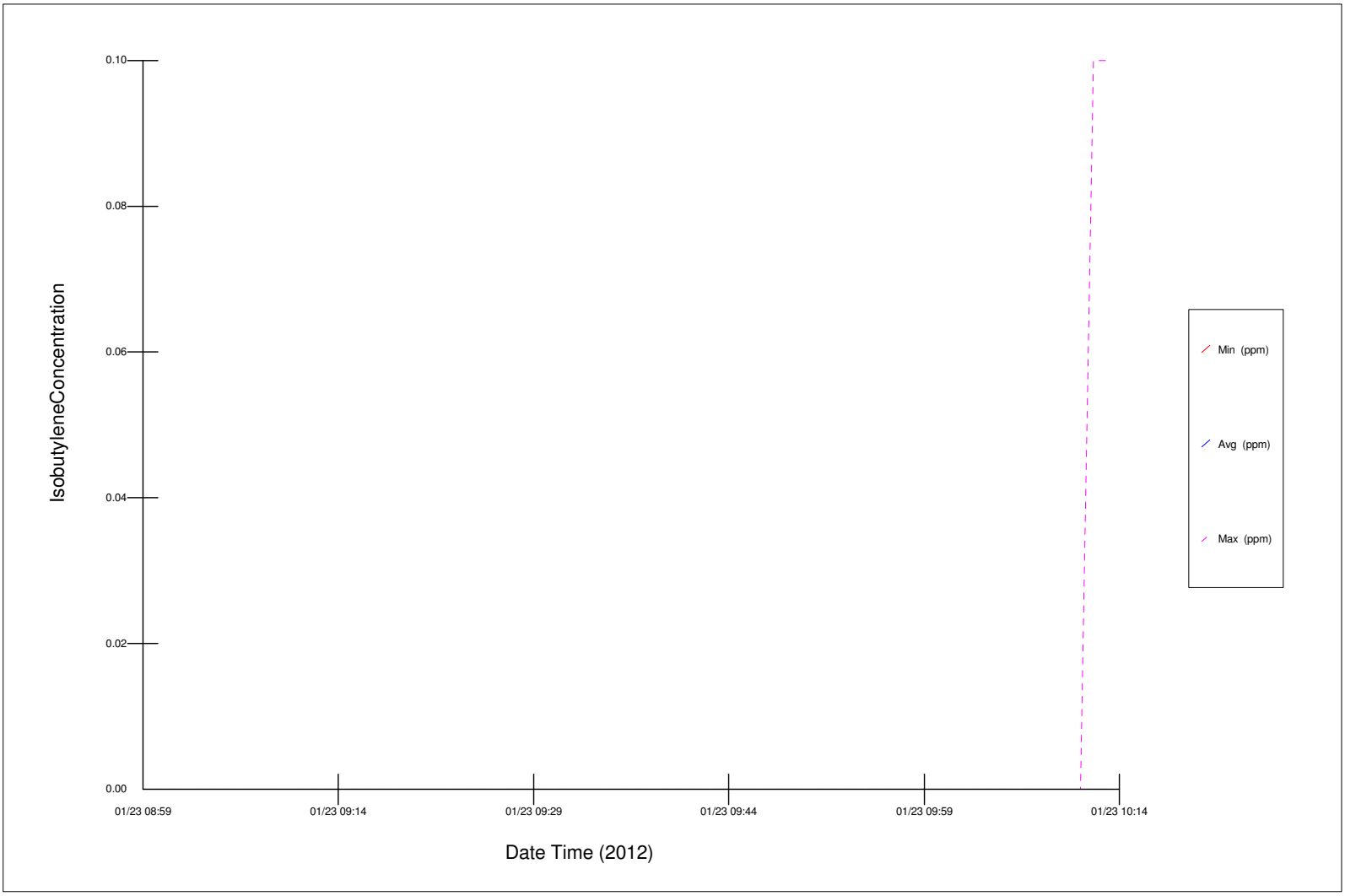

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/20 10:38
01/20 10:56
01/20 11:14
01/20 11:32
01/20 11:50
01/20 12:08
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000085
Data Points: 87 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/20/2012	10:38	0.0	0.0	0.0
2	01/20/2012	10:39	0.0	0.0	0.0
3	01/20/2012	10:40	0.0	0.0	0.0
4	01/20/2012	10:41	0.0	0.0	0.0
5	01/20/2012	10:42	0.0	0.0	0.0
6	01/20/2012	10:43	0.0	0.0	0.0
7	01/20/2012	10:44	0.0	0.0	0.0
8	01/20/2012	10:45	0.0	0.0	0.0
9	01/20/2012	10:46	0.0	0.0	0.0
10	01/20/2012	10:47	0.0	0.0	0.0
11	01/20/2012	10:48	0.0	0.0	0.0
12	01/20/2012	10:49	0.0	0.0	0.0
13	01/20/2012	10:50	0.0	0.0	0.0
14	01/20/2012	10:51	0.0	0.0	0.0
15	01/20/2012	10:52	0.0	0.0	0.0
16	01/20/2012	10:53	0.0	0.0	0.0
17	01/20/2012	10:54	0.0	0.0	0.0
18	01/20/2012	10:55	0.0	0.0	0.0
19	01/20/2012	10:56	0.0	0.0	0.0
20	01/20/2012	10:57	0.0	0.0	0.0
21	01/20/2012	10:58	0.0	0.0	0.0
22	01/20/2012	10:59	0.0	0.0	0.0
23	01/20/2012	11:00	0.0	0.0	0.0
24	01/20/2012	11:01	0.0	0.0	0.0
25	01/20/2012	11:02	0.0	0.0	0.0
26	01/20/2012	11:03	0.0	0.0	0.0
27	01/20/2012	11:04	0.0	0.0	0.0
28	01/20/2012	11:05	0.0	0.0	0.0
29	01/20/2012	11:06	0.0	0.0	0.0
30	01/20/2012	11:07	0.0	0.0	0.0
31	01/20/2012	11:08	0.0	0.0	0.0
32	01/20/2012	11:09	0.0	0.0	0.0
33	01/20/2012	11:10	0.0	0.0	0.0
34	01/20/2012	11:11	0.0	0.0	0.0
35	01/20/2012	11:12	0.0	0.0	0.0
36	01/20/2012	11:13	0.0	0.0	0.0
37	01/20/2012	11:14	0.0	0.0	0.0
38	01/20/2012	11:15	0.0	0.0	0.0
39	01/20/2012	11:16	0.0	0.0	0.0
40	01/20/2012	11:17	0.0	0.0	0.0
41	01/20/2012	11:18	0.0	0.0	0.0
42	01/20/2012	11:19	0.0	0.0	0.0
43	01/20/2012	11:20	0.0	0.0	0.0
44	01/20/2012	11:21	0.0	0.0	0.0
45	01/20/2012	11:22	0.0	0.0	0.0
46	01/20/2012	11:23	0.0	0.0	0.0
47	01/20/2012	11:24	0.0	0.0	0.0
48	01/20/2012	11:25	0.0	0.0	0.0
49	01/20/2012	11:26	0.0	0.0	0.0
50	01/20/2012	11:27	0.0	0.0	0.0
51	01/20/2012	11:28	0.0	0.0	0.0
52	01/20/2012	11:29	0.0	0.0	0.0
53	01/20/2012	11:30	0.0	0.0	0.0
54	01/20/2012	11:31	0.0	0.0	0.0
55	01/20/2012	11:32	0.0	0.0	0.0
56	01/20/2012	11:33	0.0	0.0	0.0
57	01/20/2012	11:34	0.0	0.0	0.0
58	01/20/2012	11:35	0.0	0.0	0.0

59	01/20/2012 11:36	0.0	0.0	0.0
60	01/20/2012 11:37	0.0	0.0	0.0
61	01/20/2012 11:38	0.0	0.0	0.0
62	01/20/2012 11:39	0.0	0.0	0.0
63	01/20/2012 11:40	0.0	0.0	0.0
64	01/20/2012 11:41	0.0	0.0	0.0
65	01/20/2012 11:42	0.0	0.0	0.0
66	01/20/2012 11:43	0.0	0.0	0.0
67	01/20/2012 11:44	0.0	0.0	0.0
68	01/20/2012 11:45	0.0	0.0	0.0
69	01/20/2012 11:46	0.0	0.0	0.0
70	01/20/2012 11:47	0.0	0.0	0.0
71	01/20/2012 11:48	0.0	0.0	0.0
72	01/20/2012 11:49	0.0	0.0	0.0
73	01/20/2012 11:50	0.0	0.0	0.0
74	01/20/2012 11:51	0.0	0.0	0.0
75	01/20/2012 11:52	0.0	0.0	0.0
76	01/20/2012 11:53	0.0	0.0	0.0
77	01/20/2012 11:54	0.0	0.0	0.0
78	01/20/2012 11:55	0.0	0.0	0.0
79	01/20/2012 11:56	0.0	0.0	0.0
80	01/20/2012 11:57	0.0	0.0	0.0
81	01/20/2012 11:58	0.0	0.0	0.0
82	01/20/2012 11:59	0.0	0.0	0.0
83	01/20/2012 12:00	0.0	0.0	0.0
84	01/20/2012 12:01	0.0	0.0	0.0
85	01/20/2012 12:02	0.0	0.0	0.0
86	01/20/2012 12:03	0.0	0.0	0.0
87	01/20/2012 12:04	0.0	0.0	0.0

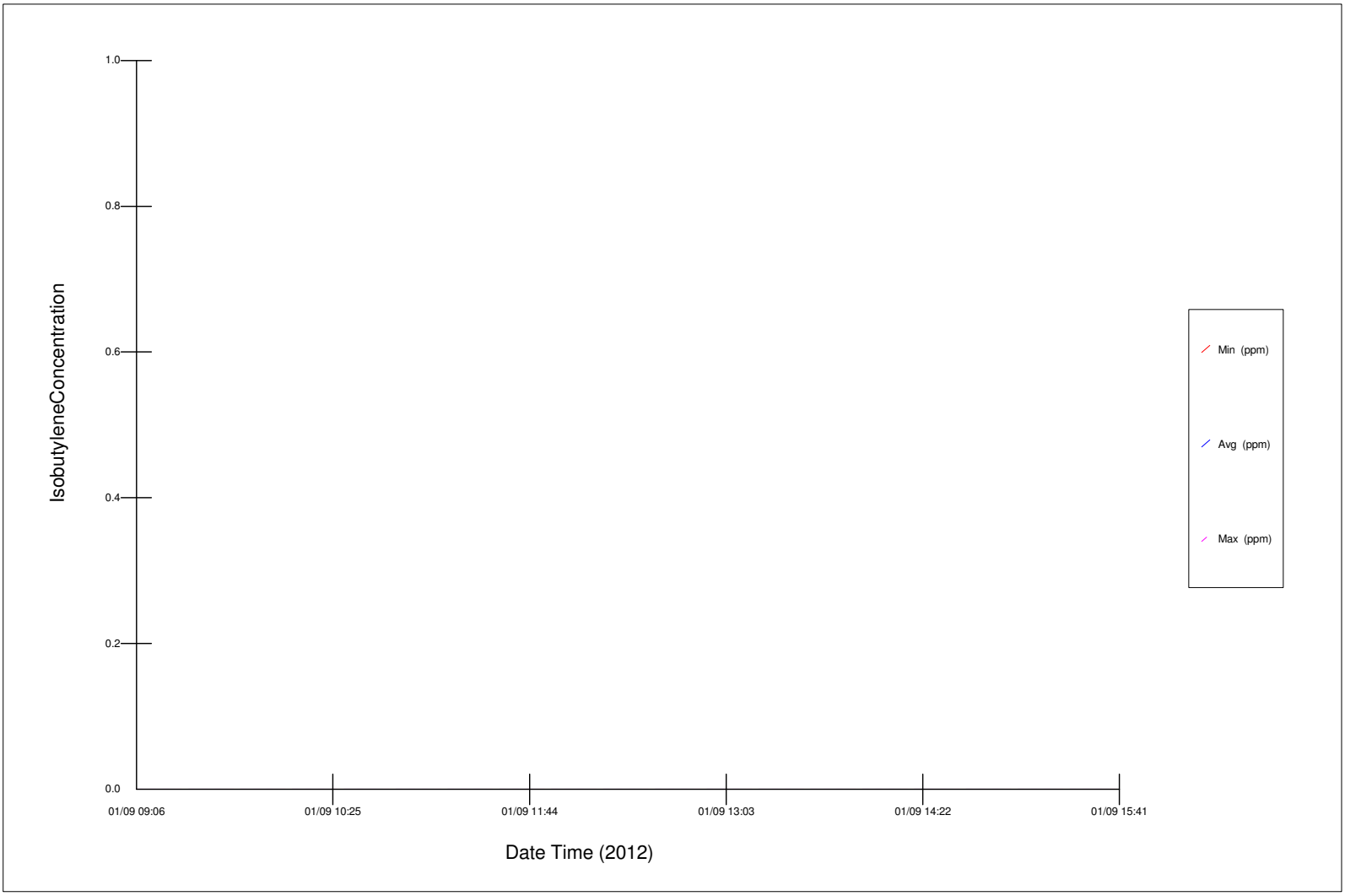

0.10
0.08
0.06
0.04
0.02
0.00
IsobutyleneConcentration
01/23 08:59
01/23 09:14
01/23 09:29
01/23 09:44
01/23 09:59
01/23 10:14
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000087
Data Points: 75 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:21

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/23/2012	08:59	0.0	0.0	0.0
2	01/23/2012	09:00	0.0	0.0	0.0
3	01/23/2012	09:01	0.0	0.0	0.0
4	01/23/2012	09:02	0.0	0.0	0.0
5	01/23/2012	09:03	0.0	0.0	0.0
6	01/23/2012	09:04	0.0	0.0	0.0
7	01/23/2012	09:05	0.0	0.0	0.0
8	01/23/2012	09:06	0.0	0.0	0.0
9	01/23/2012	09:07	0.0	0.0	0.0
10	01/23/2012	09:08	0.0	0.0	0.0
11	01/23/2012	09:09	0.0	0.0	0.0
12	01/23/2012	09:10	0.0	0.0	0.0
13	01/23/2012	09:11	0.0	0.0	0.0
14	01/23/2012	09:12	0.0	0.0	0.0
15	01/23/2012	09:13	0.0	0.0	0.0
16	01/23/2012	09:14	0.0	0.0	0.0
17	01/23/2012	09:15	0.0	0.0	0.0
18	01/23/2012	09:16	0.0	0.0	0.0
19	01/23/2012	09:17	0.0	0.0	0.0
20	01/23/2012	09:18	0.0	0.0	0.0
21	01/23/2012	09:19	0.0	0.0	0.0
22	01/23/2012	09:20	0.0	0.0	0.0
23	01/23/2012	09:21	0.0	0.0	0.0
24	01/23/2012	09:22	0.0	0.0	0.0
25	01/23/2012	09:23	0.0	0.0	0.0
26	01/23/2012	09:24	0.0	0.0	0.0
27	01/23/2012	09:25	0.0	0.0	0.0
28	01/23/2012	09:26	0.0	0.0	0.0
29	01/23/2012	09:27	0.0	0.0	0.0
30	01/23/2012	09:28	0.0	0.0	0.0
31	01/23/2012	09:29	0.0	0.0	0.0
32	01/23/2012	09:30	0.0	0.0	0.0
33	01/23/2012	09:31	0.0	0.0	0.0
34	01/23/2012	09:32	0.0	0.0	0.0
35	01/23/2012	09:33	0.0	0.0	0.0
36	01/23/2012	09:34	0.0	0.0	0.0
37	01/23/2012	09:35	0.0	0.0	0.0
38	01/23/2012	09:36	0.0	0.0	0.0
39	01/23/2012	09:37	0.0	0.0	0.0
40	01/23/2012	09:38	0.0	0.0	0.0
41	01/23/2012	09:39	0.0	0.0	0.0
42	01/23/2012	09:40	0.0	0.0	0.0
43	01/23/2012	09:41	0.0	0.0	0.0
44	01/23/2012	09:42	0.0	0.0	0.0
45	01/23/2012	09:43	0.0	0.0	0.0
46	01/23/2012	09:44	0.0	0.0	0.0
47	01/23/2012	09:45	0.0	0.0	0.0
48	01/23/2012	09:46	0.0	0.0	0.0
49	01/23/2012	09:47	0.0	0.0	0.0
50	01/23/2012	09:48	0.0	0.0	0.0
51	01/23/2012	09:49	0.0	0.0	0.0
52	01/23/2012	09:50	0.0	0.0	0.0
53	01/23/2012	09:51	0.0	0.0	0.0
54	01/23/2012	09:52	0.0	0.0	0.0
55	01/23/2012	09:53	0.0	0.0	0.0
56	01/23/2012	09:54	0.0	0.0	0.0
57	01/23/2012	09:55	0.0	0.0	0.0
58	01/23/2012	09:56	0.0	0.0	0.0

59	01/23/2012 09:57	0.0	0.0	0.0
60	01/23/2012 09:58	0.0	0.0	0.0
61	01/23/2012 09:59	0.0	0.0	0.0
62	01/23/2012 10:00	0.0	0.0	0.0
63	01/23/2012 10:01	0.0	0.0	0.0
64	01/23/2012 10:02	0.0	0.0	0.0
65	01/23/2012 10:03	0.0	0.0	0.0
66	01/23/2012 10:04	0.0	0.0	0.0
67	01/23/2012 10:05	0.0	0.0	0.0
68	01/23/2012 10:06	0.0	0.0	0.0
69	01/23/2012 10:07	0.0	0.0	0.0
70	01/23/2012 10:08	0.0	0.0	0.0
71	01/23/2012 10:09	0.0	0.0	0.0
72	01/23/2012 10:10	0.0	0.0	0.0
73	01/23/2012 10:11	0.0	0.0	0.0
74	01/23/2012 10:12	0.0	0.0	0.1
75	01/23/2012 10:13	0.0	0.0	0.1


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/09 09:06
01/09 10:25
01/09 11:44
01/09 13:03
01/09 14:22
01/09 15:41
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000042
Data Points: 395 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/09/2012	09:06	0.0	0.0	0.0
2	01/09/2012	09:07	0.0	0.0	0.0
3	01/09/2012	09:08	0.0	0.0	0.0
4	01/09/2012	09:09	0.0	0.0	0.0
5	01/09/2012	09:10	0.0	0.0	0.0
6	01/09/2012	09:11	0.0	0.0	0.0
7	01/09/2012	09:12	0.0	0.0	0.0
8	01/09/2012	09:13	0.0	0.0	0.0
9	01/09/2012	09:14	0.0	0.0	0.0
10	01/09/2012	09:15	0.0	0.0	0.0
11	01/09/2012	09:16	0.0	0.0	0.0
12	01/09/2012	09:17	0.0	0.0	0.0
13	01/09/2012	09:18	0.0	0.0	0.0
14	01/09/2012	09:19	0.0	0.0	0.0
15	01/09/2012	09:20	0.0	0.0	0.0
16	01/09/2012	09:21	0.0	0.0	0.0
17	01/09/2012	09:22	0.0	0.0	0.0
18	01/09/2012	09:23	0.0	0.0	0.0
19	01/09/2012	09:24	0.0	0.0	0.0
20	01/09/2012	09:25	0.0	0.0	0.0
21	01/09/2012	09:26	0.0	0.0	0.0
22	01/09/2012	09:27	0.0	0.0	0.0
23	01/09/2012	09:28	0.0	0.0	0.0
24	01/09/2012	09:29	0.0	0.0	0.0
25	01/09/2012	09:30	0.0	0.0	0.0
26	01/09/2012	09:31	0.0	0.0	0.0
27	01/09/2012	09:32	0.0	0.0	0.0
28	01/09/2012	09:33	0.0	0.0	0.0
29	01/09/2012	09:34	0.0	0.0	0.0
30	01/09/2012	09:35	0.0	0.0	0.0
31	01/09/2012	09:36	0.0	0.0	0.0
32	01/09/2012	09:37	0.0	0.0	0.0
33	01/09/2012	09:38	0.0	0.0	0.0
34	01/09/2012	09:39	0.0	0.0	0.0
35	01/09/2012	09:40	0.0	0.0	0.0
36	01/09/2012	09:41	0.0	0.0	0.0
37	01/09/2012	09:42	0.0	0.0	0.0
38	01/09/2012	09:43	0.0	0.0	0.0
39	01/09/2012	09:44	0.0	0.0	0.0
40	01/09/2012	09:45	0.0	0.0	0.0
41	01/09/2012	09:46	0.0	0.0	0.0
42	01/09/2012	09:47	0.0	0.0	0.0
43	01/09/2012	09:48	0.0	0.0	0.0
44	01/09/2012	09:49	0.0	0.0	0.0
45	01/09/2012	09:50	0.0	0.0	0.0
46	01/09/2012	09:51	0.0	0.0	0.0
47	01/09/2012	09:52	0.0	0.0	0.0
48	01/09/2012	09:53	0.0	0.0	0.0
49	01/09/2012	09:54	0.0	0.0	0.0
50	01/09/2012	09:55	0.0	0.0	0.0
51	01/09/2012	09:56	0.0	0.0	0.0
52	01/09/2012	09:57	0.0	0.0	0.0
53	01/09/2012	09:58	0.0	0.0	0.0
54	01/09/2012	09:59	0.0	0.0	0.0
55	01/09/2012	10:00	0.0	0.0	0.0
56	01/09/2012	10:01	0.0	0.0	0.0
57	01/09/2012	10:02	0.0	0.0	0.0
58	01/09/2012	10:03	0.0	0.0	0.0

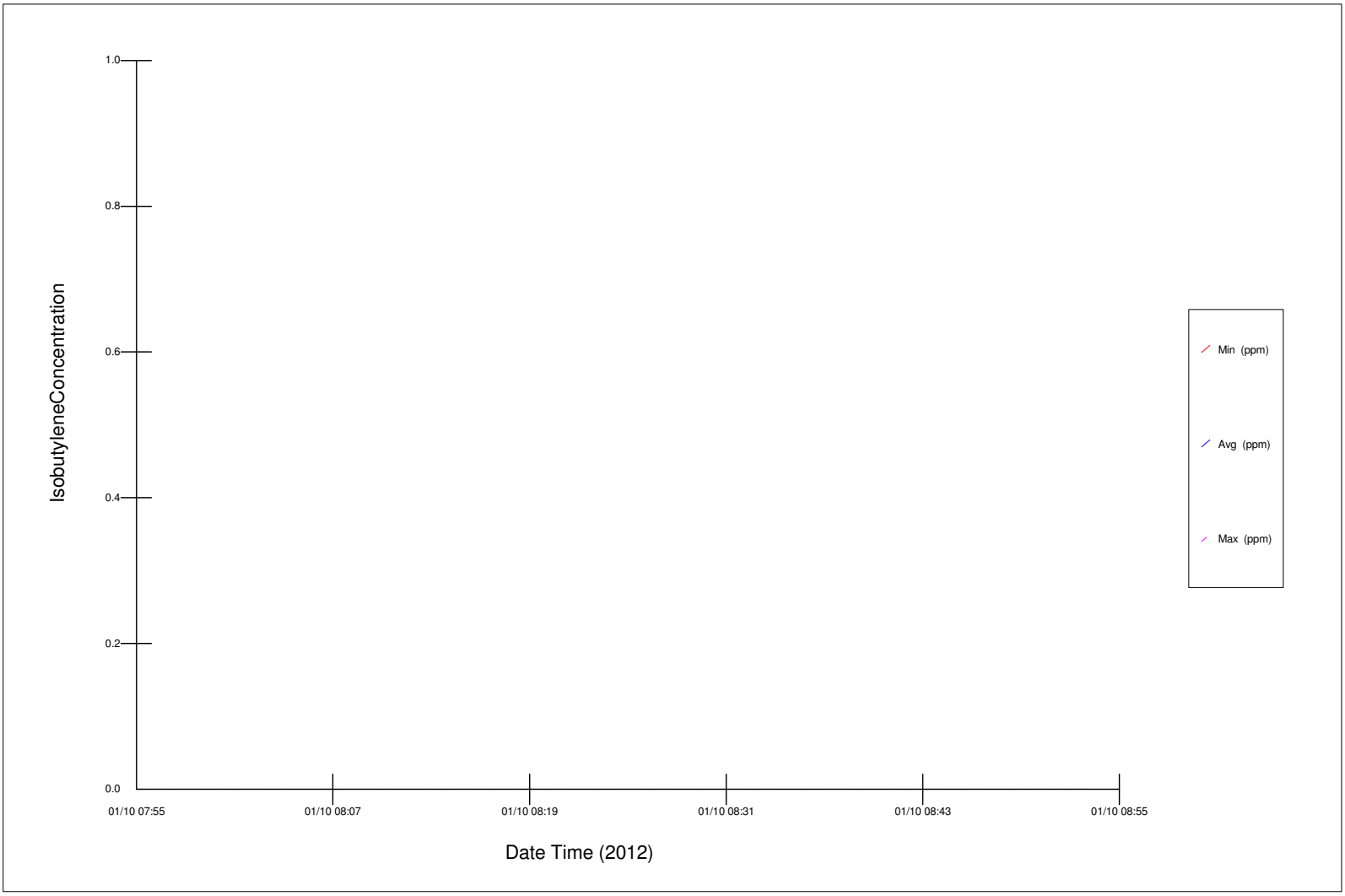
59	01/09/2012 10:04	0.0	0.0	0.0
60	01/09/2012 10:05	0.0	0.0	0.0
61	01/09/2012 10:06	0.0	0.0	0.0
62	01/09/2012 10:07	0.0	0.0	0.0
63	01/09/2012 10:08	0.0	0.0	0.0
64	01/09/2012 10:09	0.0	0.0	0.0
65	01/09/2012 10:10	0.0	0.0	0.0
66	01/09/2012 10:11	0.0	0.0	0.0
67	01/09/2012 10:12	0.0	0.0	0.0
68	01/09/2012 10:13	0.0	0.0	0.0
69	01/09/2012 10:14	0.0	0.0	0.0
70	01/09/2012 10:15	0.0	0.0	0.0
71	01/09/2012 10:16	0.0	0.0	0.0
72	01/09/2012 10:17	0.0	0.0	0.0
73	01/09/2012 10:18	0.0	0.0	0.0
74	01/09/2012 10:19	0.0	0.0	0.0
75	01/09/2012 10:20	0.0	0.0	0.0
76	01/09/2012 10:21	0.0	0.0	0.0
77	01/09/2012 10:22	0.0	0.0	0.0
78	01/09/2012 10:23	0.0	0.0	0.0
79	01/09/2012 10:24	0.0	0.0	0.0
80	01/09/2012 10:25	0.0	0.0	0.0
81	01/09/2012 10:26	0.0	0.0	0.0
82	01/09/2012 10:27	0.0	0.0	0.0
83	01/09/2012 10:28	0.0	0.0	0.0
84	01/09/2012 10:29	0.0	0.0	0.0
85	01/09/2012 10:30	0.0	0.0	0.0
86	01/09/2012 10:31	0.0	0.0	0.0
87	01/09/2012 10:32	0.0	0.0	0.0
88	01/09/2012 10:33	0.0	0.0	0.0
89	01/09/2012 10:34	0.0	0.0	0.0
90	01/09/2012 10:35	0.0	0.0	0.0
91	01/09/2012 10:36	0.0	0.0	0.0
92	01/09/2012 10:37	0.0	0.0	0.0
93	01/09/2012 10:38	0.0	0.0	0.0
94	01/09/2012 10:39	0.0	0.0	0.0
95	01/09/2012 10:40	0.0	0.0	0.0
96	01/09/2012 10:41	0.0	0.0	0.0
97	01/09/2012 10:42	0.0	0.0	0.0
98	01/09/2012 10:43	0.0	0.0	0.0
99	01/09/2012 10:44	0.0	0.0	0.0
100	01/09/2012 10:45	0.0	0.0	0.0
101	01/09/2012 10:46	0.0	0.0	0.0
102	01/09/2012 10:47	0.0	0.0	0.0
103	01/09/2012 10:48	0.0	0.0	0.0
104	01/09/2012 10:49	0.0	0.0	0.0
105	01/09/2012 10:50	0.0	0.0	0.0
106	01/09/2012 10:51	0.0	0.0	0.0
107	01/09/2012 10:52	0.0	0.0	0.0
108	01/09/2012 10:53	0.0	0.0	0.0
109	01/09/2012 10:54	0.0	0.0	0.0
110	01/09/2012 10:55	0.0	0.0	0.0
111	01/09/2012 10:56	0.0	0.0	0.0
112	01/09/2012 10:57	0.0	0.0	0.0
113	01/09/2012 10:58	0.0	0.0	0.0
114	01/09/2012 10:59	0.0	0.0	0.0
115	01/09/2012 11:00	0.0	0.0	0.0
116	01/09/2012 11:01	0.0	0.0	0.0
117	01/09/2012 11:02	0.0	0.0	0.0
118	01/09/2012 11:03	0.0	0.0	0.0
119	01/09/2012 11:04	0.0	0.0	0.0
120	01/09/2012 11:05	0.0	0.0	0.0
121	01/09/2012 11:06	0.0	0.0	0.0
122	01/09/2012 11:07	0.0	0.0	0.0
123	01/09/2012 11:08	0.0	0.0	0.0
124	01/09/2012 11:09	0.0	0.0	0.0
125	01/09/2012 11:10	0.0	0.0	0.0
126	01/09/2012 11:11	0.0	0.0	0.0
127	01/09/2012 11:12	0.0	0.0	0.0

128	01/09/2012 11:13	0.0	0.0	0.0
129	01/09/2012 11:14	0.0	0.0	0.0
130	01/09/2012 11:15	0.0	0.0	0.0
131	01/09/2012 11:16	0.0	0.0	0.0
132	01/09/2012 11:17	0.0	0.0	0.0
133	01/09/2012 11:18	0.0	0.0	0.0
134	01/09/2012 11:19	0.0	0.0	0.0
135	01/09/2012 11:20	0.0	0.0	0.0
136	01/09/2012 11:21	0.0	0.0	0.0
137	01/09/2012 11:22	0.0	0.0	0.0
138	01/09/2012 11:23	0.0	0.0	0.0
139	01/09/2012 11:24	0.0	0.0	0.0
140	01/09/2012 11:25	0.0	0.0	0.0
141	01/09/2012 11:26	0.0	0.0	0.0
142	01/09/2012 11:27	0.0	0.0	0.0
143	01/09/2012 11:28	0.0	0.0	0.0
144	01/09/2012 11:29	0.0	0.0	0.0
145	01/09/2012 11:30	0.0	0.0	0.0
146	01/09/2012 11:31	0.0	0.0	0.0
147	01/09/2012 11:32	0.0	0.0	0.0
148	01/09/2012 11:33	0.0	0.0	0.0
149	01/09/2012 11:34	0.0	0.0	0.0
150	01/09/2012 11:35	0.0	0.0	0.0
151	01/09/2012 11:36	0.0	0.0	0.0
152	01/09/2012 11:37	0.0	0.0	0.0
153	01/09/2012 11:38	0.0	0.0	0.0
154	01/09/2012 11:39	0.0	0.0	0.0
155	01/09/2012 11:40	0.0	0.0	0.0
156	01/09/2012 11:41	0.0	0.0	0.0
157	01/09/2012 11:42	0.0	0.0	0.0
158	01/09/2012 11:43	0.0	0.0	0.0
159	01/09/2012 11:44	0.0	0.0	0.0
160	01/09/2012 11:45	0.0	0.0	0.0
161	01/09/2012 11:46	0.0	0.0	0.0
162	01/09/2012 11:47	0.0	0.0	0.0
163	01/09/2012 11:48	0.0	0.0	0.0
164	01/09/2012 11:49	0.0	0.0	0.0
165	01/09/2012 11:50	0.0	0.0	0.0
166	01/09/2012 11:51	0.0	0.0	0.0
167	01/09/2012 11:52	0.0	0.0	0.0
168	01/09/2012 11:53	0.0	0.0	0.0
169	01/09/2012 11:54	0.0	0.0	0.0
170	01/09/2012 11:55	0.0	0.0	0.0
171	01/09/2012 11:56	0.0	0.0	0.0
172	01/09/2012 11:57	0.0	0.0	0.0
173	01/09/2012 11:58	0.0	0.0	0.0
174	01/09/2012 11:59	0.0	0.0	0.0
175	01/09/2012 12:00	0.0	0.0	0.0
176	01/09/2012 12:01	0.0	0.0	0.0
177	01/09/2012 12:02	0.0	0.0	0.0
178	01/09/2012 12:03	0.0	0.0	0.0
179	01/09/2012 12:04	0.0	0.0	0.0
180	01/09/2012 12:05	0.0	0.0	0.0
181	01/09/2012 12:06	0.0	0.0	0.0
182	01/09/2012 12:07	0.0	0.0	0.0
183	01/09/2012 12:08	0.0	0.0	0.0
184	01/09/2012 12:09	0.0	0.0	0.0
185	01/09/2012 12:10	0.0	0.0	0.0
186	01/09/2012 12:11	0.0	0.0	0.0
187	01/09/2012 12:12	0.0	0.0	0.0
188	01/09/2012 12:13	0.0	0.0	0.0
189	01/09/2012 12:14	0.0	0.0	0.0
190	01/09/2012 12:15	0.0	0.0	0.0
191	01/09/2012 12:16	0.0	0.0	0.0
192	01/09/2012 12:17	0.0	0.0	0.0
193	01/09/2012 12:18	0.0	0.0	0.0
194	01/09/2012 12:19	0.0	0.0	0.0
195	01/09/2012 12:20	0.0	0.0	0.0
196	01/09/2012 12:21	0.0	0.0	0.0

197	01/09/2012 12:22	0.0	0.0	0.0
198	01/09/2012 12:23	0.0	0.0	0.0
199	01/09/2012 12:24	0.0	0.0	0.0
200	01/09/2012 12:25	0.0	0.0	0.0
201	01/09/2012 12:26	0.0	0.0	0.0
202	01/09/2012 12:27	0.0	0.0	0.0
203	01/09/2012 12:28	0.0	0.0	0.0
204	01/09/2012 12:29	0.0	0.0	0.0
205	01/09/2012 12:30	0.0	0.0	0.0
206	01/09/2012 12:31	0.0	0.0	0.0
207	01/09/2012 12:32	0.0	0.0	0.0
208	01/09/2012 12:33	0.0	0.0	0.0
209	01/09/2012 12:34	0.0	0.0	0.0
210	01/09/2012 12:35	0.0	0.0	0.0
211	01/09/2012 12:36	0.0	0.0	0.0
212	01/09/2012 12:37	0.0	0.0	0.0
213	01/09/2012 12:38	0.0	0.0	0.0
214	01/09/2012 12:39	0.0	0.0	0.0
215	01/09/2012 12:40	0.0	0.0	0.0
216	01/09/2012 12:41	0.0	0.0	0.0
217	01/09/2012 12:42	0.0	0.0	0.0
218	01/09/2012 12:43	0.0	0.0	0.0
219	01/09/2012 12:44	0.0	0.0	0.0
220	01/09/2012 12:45	0.0	0.0	0.0
221	01/09/2012 12:46	0.0	0.0	0.0
222	01/09/2012 12:47	0.0	0.0	0.0
223	01/09/2012 12:48	0.0	0.0	0.0
224	01/09/2012 12:49	0.0	0.0	0.0
225	01/09/2012 12:50	0.0	0.0	0.0
226	01/09/2012 12:51	0.0	0.0	0.0
227	01/09/2012 12:52	0.0	0.0	0.0
228	01/09/2012 12:53	0.0	0.0	0.0
229	01/09/2012 12:54	0.0	0.0	0.0
230	01/09/2012 12:55	0.0	0.0	0.0
231	01/09/2012 12:56	0.0	0.0	0.0
232	01/09/2012 12:57	0.0	0.0	0.0
233	01/09/2012 12:58	0.0	0.0	0.0
234	01/09/2012 12:59	0.0	0.0	0.0
235	01/09/2012 13:00	0.0	0.0	0.0
236	01/09/2012 13:01	0.0	0.0	0.0
237	01/09/2012 13:02	0.0	0.0	0.0
238	01/09/2012 13:03	0.0	0.0	0.0
239	01/09/2012 13:04	0.0	0.0	0.0
240	01/09/2012 13:05	0.0	0.0	0.0
241	01/09/2012 13:06	0.0	0.0	0.0
242	01/09/2012 13:07	0.0	0.0	0.0
243	01/09/2012 13:08	0.0	0.0	0.0
244	01/09/2012 13:09	0.0	0.0	0.0
245	01/09/2012 13:10	0.0	0.0	0.0
246	01/09/2012 13:11	0.0	0.0	0.0
247	01/09/2012 13:12	0.0	0.0	0.0
248	01/09/2012 13:13	0.0	0.0	0.0
249	01/09/2012 13:14	0.0	0.0	0.0
250	01/09/2012 13:15	0.0	0.0	0.0
251	01/09/2012 13:16	0.0	0.0	0.0
252	01/09/2012 13:17	0.0	0.0	0.0
253	01/09/2012 13:18	0.0	0.0	0.0
254	01/09/2012 13:19	0.0	0.0	0.0
255	01/09/2012 13:20	0.0	0.0	0.0
256	01/09/2012 13:21	0.0	0.0	0.0
257	01/09/2012 13:22	0.0	0.0	0.0
258	01/09/2012 13:23	0.0	0.0	0.0
259	01/09/2012 13:24	0.0	0.0	0.0
260	01/09/2012 13:25	0.0	0.0	0.0
261	01/09/2012 13:26	0.0	0.0	0.0
262	01/09/2012 13:27	0.0	0.0	0.0
263	01/09/2012 13:28	0.0	0.0	0.0
264	01/09/2012 13:29	0.0	0.0	0.0
265	01/09/2012 13:30	0.0	0.0	0.0

266	01/09/2012 13:31	0.0	0.0	0.0
267	01/09/2012 13:32	0.0	0.0	0.0
268	01/09/2012 13:33	0.0	0.0	0.0
269	01/09/2012 13:34	0.0	0.0	0.0
270	01/09/2012 13:35	0.0	0.0	0.0
271	01/09/2012 13:36	0.0	0.0	0.0
272	01/09/2012 13:37	0.0	0.0	0.0
273	01/09/2012 13:38	0.0	0.0	0.0
274	01/09/2012 13:39	0.0	0.0	0.0
275	01/09/2012 13:40	0.0	0.0	0.0
276	01/09/2012 13:41	0.0	0.0	0.0
277	01/09/2012 13:42	0.0	0.0	0.0
278	01/09/2012 13:43	0.0	0.0	0.0
279	01/09/2012 13:44	0.0	0.0	0.0
280	01/09/2012 13:45	0.0	0.0	0.0
281	01/09/2012 13:46	0.0	0.0	0.0
282	01/09/2012 13:47	0.0	0.0	0.0
283	01/09/2012 13:48	0.0	0.0	0.0
284	01/09/2012 13:49	0.0	0.0	0.0
285	01/09/2012 13:50	0.0	0.0	0.0
286	01/09/2012 13:51	0.0	0.0	0.0
287	01/09/2012 13:52	0.0	0.0	0.0
288	01/09/2012 13:53	0.0	0.0	0.0
289	01/09/2012 13:54	0.0	0.0	0.0
290	01/09/2012 13:55	0.0	0.0	0.0
291	01/09/2012 13:56	0.0	0.0	0.0
292	01/09/2012 13:57	0.0	0.0	0.0
293	01/09/2012 13:58	0.0	0.0	0.0
294	01/09/2012 13:59	0.0	0.0	0.0
295	01/09/2012 14:00	0.0	0.0	0.0
296	01/09/2012 14:01	0.0	0.0	0.0
297	01/09/2012 14:02	0.0	0.0	0.0
298	01/09/2012 14:03	0.0	0.0	0.0
299	01/09/2012 14:04	0.0	0.0	0.0
300	01/09/2012 14:05	0.0	0.0	0.0
301	01/09/2012 14:06	0.0	0.0	0.0
302	01/09/2012 14:07	0.0	0.0	0.0
303	01/09/2012 14:08	0.0	0.0	0.0
304	01/09/2012 14:09	0.0	0.0	0.0
305	01/09/2012 14:10	0.0	0.0	0.0
306	01/09/2012 14:11	0.0	0.0	0.0
307	01/09/2012 14:12	0.0	0.0	0.0
308	01/09/2012 14:13	0.0	0.0	0.0
309	01/09/2012 14:14	0.0	0.0	0.0
310	01/09/2012 14:15	0.0	0.0	0.0
311	01/09/2012 14:16	0.0	0.0	0.0
312	01/09/2012 14:17	0.0	0.0	0.0
313	01/09/2012 14:18	0.0	0.0	0.0
314	01/09/2012 14:19	0.0	0.0	0.0
315	01/09/2012 14:20	0.0	0.0	0.0
316	01/09/2012 14:21	0.0	0.0	0.0
317	01/09/2012 14:22	0.0	0.0	0.0
318	01/09/2012 14:23	0.0	0.0	0.0
319	01/09/2012 14:24	0.0	0.0	0.0
320	01/09/2012 14:25	0.0	0.0	0.0
321	01/09/2012 14:26	0.0	0.0	0.0
322	01/09/2012 14:27	0.0	0.0	0.0
323	01/09/2012 14:28	0.0	0.0	0.0
324	01/09/2012 14:29	0.0	0.0	0.0
325	01/09/2012 14:30	0.0	0.0	0.0
326	01/09/2012 14:31	0.0	0.0	0.0
327	01/09/2012 14:32	0.0	0.0	0.0
328	01/09/2012 14:33	0.0	0.0	0.0
329	01/09/2012 14:34	0.0	0.0	0.0
330	01/09/2012 14:35	0.0	0.0	0.0
331	01/09/2012 14:36	0.0	0.0	0.0
332	01/09/2012 14:37	0.0	0.0	0.0
333	01/09/2012 14:38	0.0	0.0	0.0
334	01/09/2012 14:39	0.0	0.0	0.0

335	01/09/2012 14:40	0.0	0.0	0.0
336	01/09/2012 14:41	0.0	0.0	0.0
337	01/09/2012 14:42	0.0	0.0	0.0
338	01/09/2012 14:43	0.0	0.0	0.0
339	01/09/2012 14:44	0.0	0.0	0.0
340	01/09/2012 14:45	0.0	0.0	0.0
341	01/09/2012 14:46	0.0	0.0	0.0
342	01/09/2012 14:47	0.0	0.0	0.0
343	01/09/2012 14:48	0.0	0.0	0.0
344	01/09/2012 14:49	0.0	0.0	0.0
345	01/09/2012 14:50	0.0	0.0	0.0
346	01/09/2012 14:51	0.0	0.0	0.0
347	01/09/2012 14:52	0.0	0.0	0.0
348	01/09/2012 14:53	0.0	0.0	0.0
349	01/09/2012 14:54	0.0	0.0	0.0
350	01/09/2012 14:55	0.0	0.0	0.0
351	01/09/2012 14:56	0.0	0.0	0.0
352	01/09/2012 14:57	0.0	0.0	0.0
353	01/09/2012 14:58	0.0	0.0	0.0
354	01/09/2012 14:59	0.0	0.0	0.0
355	01/09/2012 15:00	0.0	0.0	0.0
356	01/09/2012 15:01	0.0	0.0	0.0
357	01/09/2012 15:02	0.0	0.0	0.0
358	01/09/2012 15:03	0.0	0.0	0.0
359	01/09/2012 15:04	0.0	0.0	0.0
360	01/09/2012 15:05	0.0	0.0	0.0
361	01/09/2012 15:06	0.0	0.0	0.0
362	01/09/2012 15:07	0.0	0.0	0.0
363	01/09/2012 15:08	0.0	0.0	0.0
364	01/09/2012 15:09	0.0	0.0	0.0
365	01/09/2012 15:10	0.0	0.0	0.0
366	01/09/2012 15:11	0.0	0.0	0.0
367	01/09/2012 15:12	0.0	0.0	0.0
368	01/09/2012 15:13	0.0	0.0	0.0
369	01/09/2012 15:14	0.0	0.0	0.0
370	01/09/2012 15:15	0.0	0.0	0.0
371	01/09/2012 15:16	0.0	0.0	0.0
372	01/09/2012 15:17	0.0	0.0	0.0
373	01/09/2012 15:18	0.0	0.0	0.0
374	01/09/2012 15:19	0.0	0.0	0.0
375	01/09/2012 15:20	0.0	0.0	0.0
376	01/09/2012 15:21	0.0	0.0	0.0
377	01/09/2012 15:22	0.0	0.0	0.0
378	01/09/2012 15:23	0.0	0.0	0.0
379	01/09/2012 15:24	0.0	0.0	0.0
380	01/09/2012 15:25	0.0	0.0	0.0
381	01/09/2012 15:26	0.0	0.0	0.0
382	01/09/2012 15:27	0.0	0.0	0.0
383	01/09/2012 15:28	0.0	0.0	0.0
384	01/09/2012 15:29	0.0	0.0	0.0
385	01/09/2012 15:30	0.0	0.0	0.0
386	01/09/2012 15:31	0.0	0.0	0.0
387	01/09/2012 15:32	0.0	0.0	0.0
388	01/09/2012 15:33	0.0	0.0	0.0
389	01/09/2012 15:34	0.0	0.0	0.0
390	01/09/2012 15:35	0.0	0.0	0.0
391	01/09/2012 15:36	0.0	0.0	0.0
392	01/09/2012 15:37	0.0	0.0	0.0
393	01/09/2012 15:38	0.0	0.0	0.0
394	01/09/2012 15:39	0.0	0.0	0.0
395	01/09/2012 15:40	0.0	0.0	0.0

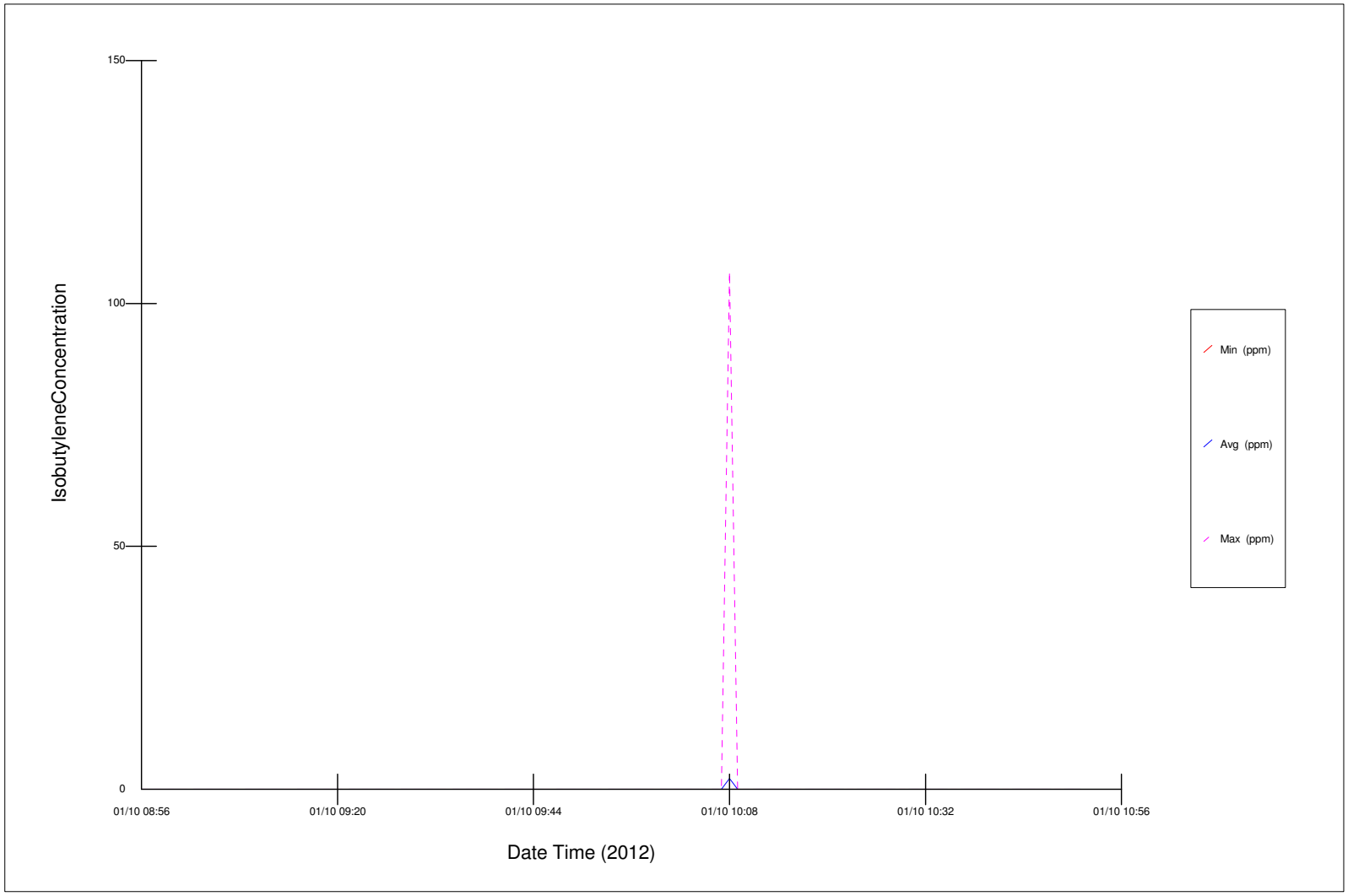

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/10 07:55
01/10 08:07
01/10 08:19
01/10 08:31
01/10 08:43
01/10 08:55
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000044
Data Points: 59 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	07:55	0.0	0.0	0.0
2	01/10/2012	07:56	0.0	0.0	0.0
3	01/10/2012	07:57	0.0	0.0	0.0
4	01/10/2012	07:58	0.0	0.0	0.0
5	01/10/2012	07:59	0.0	0.0	0.0
6	01/10/2012	08:00	0.0	0.0	0.0
7	01/10/2012	08:01	0.0	0.0	0.0
8	01/10/2012	08:02	0.0	0.0	0.0
9	01/10/2012	08:03	0.0	0.0	0.0
10	01/10/2012	08:04	0.0	0.0	0.0
11	01/10/2012	08:05	0.0	0.0	0.0
12	01/10/2012	08:06	0.0	0.0	0.0
13	01/10/2012	08:07	0.0	0.0	0.0
14	01/10/2012	08:08	0.0	0.0	0.0
15	01/10/2012	08:09	0.0	0.0	0.0
16	01/10/2012	08:10	0.0	0.0	0.0
17	01/10/2012	08:11	0.0	0.0	0.0
18	01/10/2012	08:12	0.0	0.0	0.0
19	01/10/2012	08:13	0.0	0.0	0.0
20	01/10/2012	08:14	0.0	0.0	0.0
21	01/10/2012	08:15	0.0	0.0	0.0
22	01/10/2012	08:16	0.0	0.0	0.0
23	01/10/2012	08:17	0.0	0.0	0.0
24	01/10/2012	08:18	0.0	0.0	0.0
25	01/10/2012	08:19	0.0	0.0	0.0
26	01/10/2012	08:20	0.0	0.0	0.0
27	01/10/2012	08:21	0.0	0.0	0.0
28	01/10/2012	08:22	0.0	0.0	0.0
29	01/10/2012	08:23	0.0	0.0	0.0
30	01/10/2012	08:24	0.0	0.0	0.0
31	01/10/2012	08:25	0.0	0.0	0.0
32	01/10/2012	08:26	0.0	0.0	0.0
33	01/10/2012	08:27	0.0	0.0	0.0
34	01/10/2012	08:28	0.0	0.0	0.0
35	01/10/2012	08:29	0.0	0.0	0.0
36	01/10/2012	08:30	0.0	0.0	0.0
37	01/10/2012	08:31	0.0	0.0	0.0
38	01/10/2012	08:32	0.0	0.0	0.0
39	01/10/2012	08:33	0.0	0.0	0.0
40	01/10/2012	08:34	0.0	0.0	0.0
41	01/10/2012	08:35	0.0	0.0	0.0
42	01/10/2012	08:36	0.0	0.0	0.0
43	01/10/2012	08:37	0.0	0.0	0.0
44	01/10/2012	08:38	0.0	0.0	0.0
45	01/10/2012	08:39	0.0	0.0	0.0
46	01/10/2012	08:40	0.0	0.0	0.0
47	01/10/2012	08:41	0.0	0.0	0.0
48	01/10/2012	08:42	0.0	0.0	0.0
49	01/10/2012	08:43	0.0	0.0	0.0
50	01/10/2012	08:44	0.0	0.0	0.0
51	01/10/2012	08:45	0.0	0.0	0.0
52	01/10/2012	08:46	0.0	0.0	0.0
53	01/10/2012	08:47	0.0	0.0	0.0
54	01/10/2012	08:48	0.0	0.0	0.0
55	01/10/2012	08:49	0.0	0.0	0.0
56	01/10/2012	08:50	0.0	0.0	0.0
57	01/10/2012	08:51	0.0	0.0	0.0
58	01/10/2012	08:52	0.0	0.0	0.0

59	01/10/2012 08:53	0.0	0.0	0.0

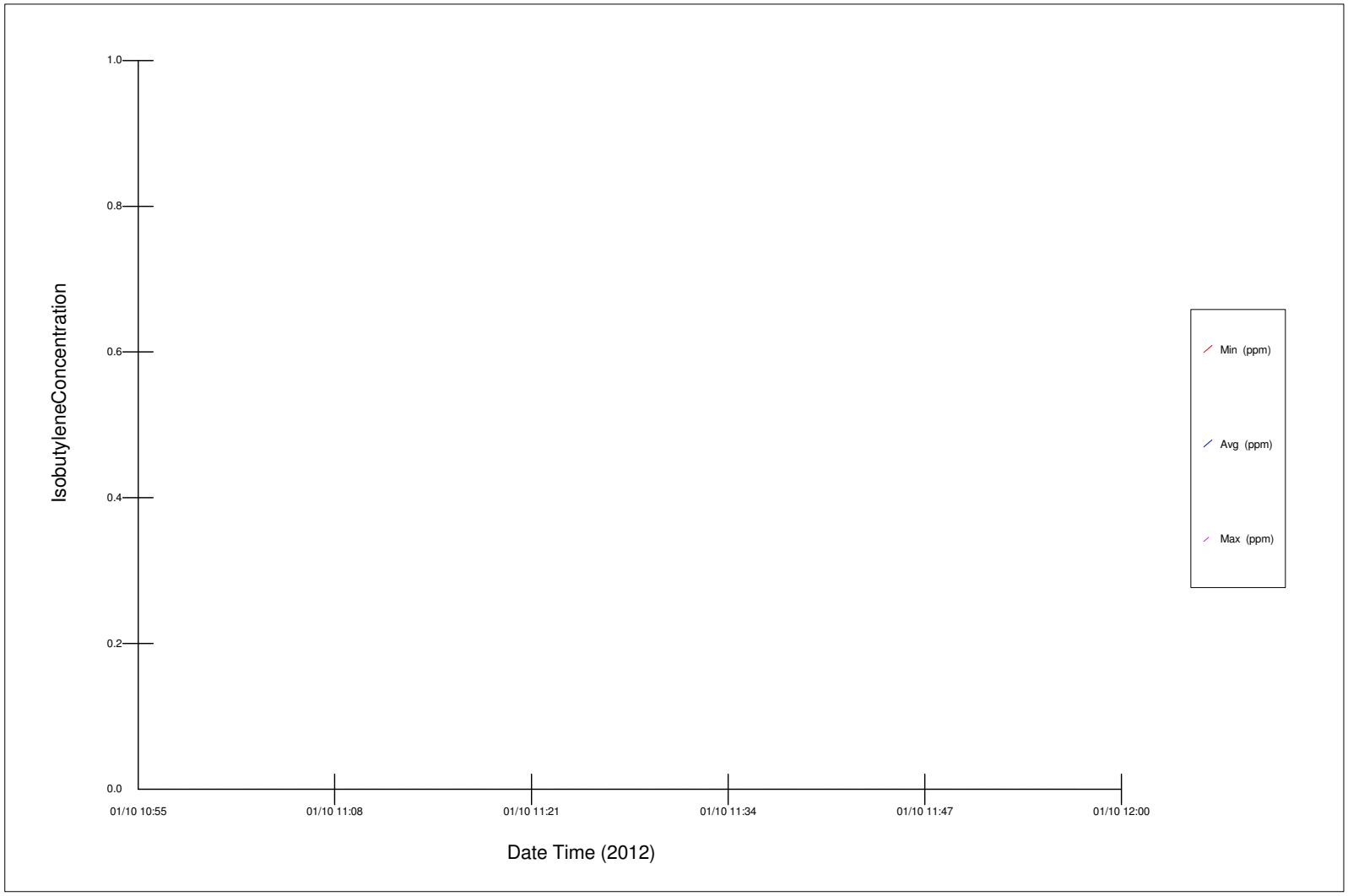

150
100
50
0
IsobutyleneConcentration
01/10 08:56
01/10 09:20
01/10 09:44
01/10 10:08
01/10 10:32
01/10 10:56
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000045
Data Points: 116 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	08:56	0.0	0.0	0.0
2	01/10/2012	08:57	0.0	0.0	0.0
3	01/10/2012	08:58	0.0	0.0	0.0
4	01/10/2012	08:59	0.0	0.0	0.0
5	01/10/2012	09:00	0.0	0.0	0.0
6	01/10/2012	09:01	0.0	0.0	0.0
7	01/10/2012	09:02	0.0	0.0	0.0
8	01/10/2012	09:03	0.0	0.0	0.0
9	01/10/2012	09:04	0.0	0.0	0.0
10	01/10/2012	09:05	0.0	0.0	0.0
11	01/10/2012	09:06	0.0	0.0	0.0
12	01/10/2012	09:07	0.0	0.0	0.0
13	01/10/2012	09:08	0.0	0.0	0.0
14	01/10/2012	09:09	0.0	0.0	0.0
15	01/10/2012	09:10	0.0	0.0	0.0
16	01/10/2012	09:11	0.0	0.0	0.0
17	01/10/2012	09:12	0.0	0.0	0.0
18	01/10/2012	09:13	0.0	0.0	0.0
19	01/10/2012	09:14	0.0	0.0	0.0
20	01/10/2012	09:15	0.0	0.0	0.0
21	01/10/2012	09:16	0.0	0.0	0.0
22	01/10/2012	09:17	0.0	0.0	0.0
23	01/10/2012	09:18	0.0	0.0	0.0
24	01/10/2012	09:19	0.0	0.0	0.0
25	01/10/2012	09:20	0.0	0.0	0.0
26	01/10/2012	09:21	0.0	0.0	0.0
27	01/10/2012	09:22	0.0	0.0	0.0
28	01/10/2012	09:23	0.0	0.0	0.0
29	01/10/2012	09:24	0.0	0.0	0.0
30	01/10/2012	09:25	0.0	0.0	0.0
31	01/10/2012	09:26	0.0	0.0	0.0
32	01/10/2012	09:27	0.0	0.0	0.0
33	01/10/2012	09:28	0.0	0.0	0.0
34	01/10/2012	09:29	0.0	0.0	0.0
35	01/10/2012	09:30	0.0	0.0	0.0
36	01/10/2012	09:31	0.0	0.0	0.0
37	01/10/2012	09:32	0.0	0.0	0.0
38	01/10/2012	09:33	0.0	0.0	0.0
39	01/10/2012	09:34	0.0	0.0	0.0
40	01/10/2012	09:35	0.0	0.0	0.0
41	01/10/2012	09:36	0.0	0.0	0.0
42	01/10/2012	09:37	0.0	0.0	0.0
43	01/10/2012	09:38	0.0	0.0	0.0
44	01/10/2012	09:39	0.0	0.0	0.0
45	01/10/2012	09:40	0.0	0.0	0.0
46	01/10/2012	09:41	0.0	0.0	0.0
47	01/10/2012	09:42	0.0	0.0	0.0
48	01/10/2012	09:43	0.0	0.0	0.0
49	01/10/2012	09:44	0.0	0.0	0.0
50	01/10/2012	09:45	0.0	0.0	0.0
51	01/10/2012	09:46	0.0	0.0	0.0
52	01/10/2012	09:47	0.0	0.0	0.0
53	01/10/2012	09:48	0.0	0.0	0.0
54	01/10/2012	09:49	0.0	0.0	0.0
55	01/10/2012	09:50	0.0	0.0	0.0
56	01/10/2012	09:51	0.0	0.0	0.0
57	01/10/2012	09:52	0.0	0.0	0.0
58	01/10/2012	09:53	0.0	0.0	0.0

59	01/10/2012 09:54	0.0	0.0	0.0
60	01/10/2012 09:55	0.0	0.0	0.0
61	01/10/2012 09:56	0.0	0.0	0.0
62	01/10/2012 09:57	0.0	0.0	0.0
63	01/10/2012 09:58	0.0	0.0	0.0
64	01/10/2012 09:59	0.0	0.0	0.0
65	01/10/2012 10:00	0.0	0.0	0.0
66	01/10/2012 10:01	0.0	0.0	0.0
67	01/10/2012 10:02	0.0	0.0	0.0
68	01/10/2012 10:03	0.0	0.0	0.0
69	01/10/2012 10:04	0.0	0.0	0.0
70	01/10/2012 10:05	0.0	0.0	0.0
71	01/10/2012 10:06	0.0	0.0	0.0
72	01/10/2012 10:07	0.0	0.0	0.0
73	01/10/2012 10:08	0.0	2.2	106.5H
74	01/10/2012 10:09	0.0	0.0	0.0
75	01/10/2012 10:10	0.0	0.0	0.0
76	01/10/2012 10:11	0.0	0.0	0.0
77	01/10/2012 10:12	0.0	0.0	0.0
78	01/10/2012 10:13	0.0	0.0	0.0
79	01/10/2012 10:14	0.0	0.0	0.0
80	01/10/2012 10:15	0.0	0.0	0.0
81	01/10/2012 10:16	0.0	0.0	0.0
82	01/10/2012 10:17	0.0	0.0	0.0
83	01/10/2012 10:18	0.0	0.0	0.0
84	01/10/2012 10:19	0.0	0.0	0.0
85	01/10/2012 10:20	0.0	0.0	0.0
86	01/10/2012 10:21	0.0	0.0	0.0
87	01/10/2012 10:22	0.0	0.0	0.0
88	01/10/2012 10:23	0.0	0.0	0.0
89	01/10/2012 10:24	0.0	0.0	0.0
90	01/10/2012 10:25	0.0	0.0	0.0
91	01/10/2012 10:26	0.0	0.0	0.0
92	01/10/2012 10:27	0.0	0.0	0.0
93	01/10/2012 10:28	0.0	0.0	0.0
94	01/10/2012 10:29	0.0	0.0	0.0
95	01/10/2012 10:30	0.0	0.0	0.0
96	01/10/2012 10:31	0.0	0.0	0.0
97	01/10/2012 10:32	0.0	0.0	0.0
98	01/10/2012 10:33	0.0	0.0	0.0
99	01/10/2012 10:34	0.0	0.0	0.0
100	01/10/2012 10:35	0.0	0.0	0.0
101	01/10/2012 10:36	0.0	0.0	0.0
102	01/10/2012 10:37	0.0	0.0	0.0
103	01/10/2012 10:38	0.0	0.0	0.0
104	01/10/2012 10:39	0.0	0.0	0.0
105	01/10/2012 10:40	0.0	0.0	0.0
106	01/10/2012 10:41	0.0	0.0	0.0
107	01/10/2012 10:42	0.0	0.0	0.0
108	01/10/2012 10:43	0.0	0.0	0.0
109	01/10/2012 10:44	0.0	0.0	0.0
110	01/10/2012 10:45	0.0	0.0	0.0
111	01/10/2012 10:46	0.0	0.0	0.0
112	01/10/2012 10:47	0.0	0.0	0.0
113	01/10/2012 10:48	0.0	0.0	0.0
114	01/10/2012 10:49	0.0	0.0	0.0
115	01/10/2012 10:50	0.0	0.0	0.0
116	01/10/2012 10:51	0.0	0.0	0.0

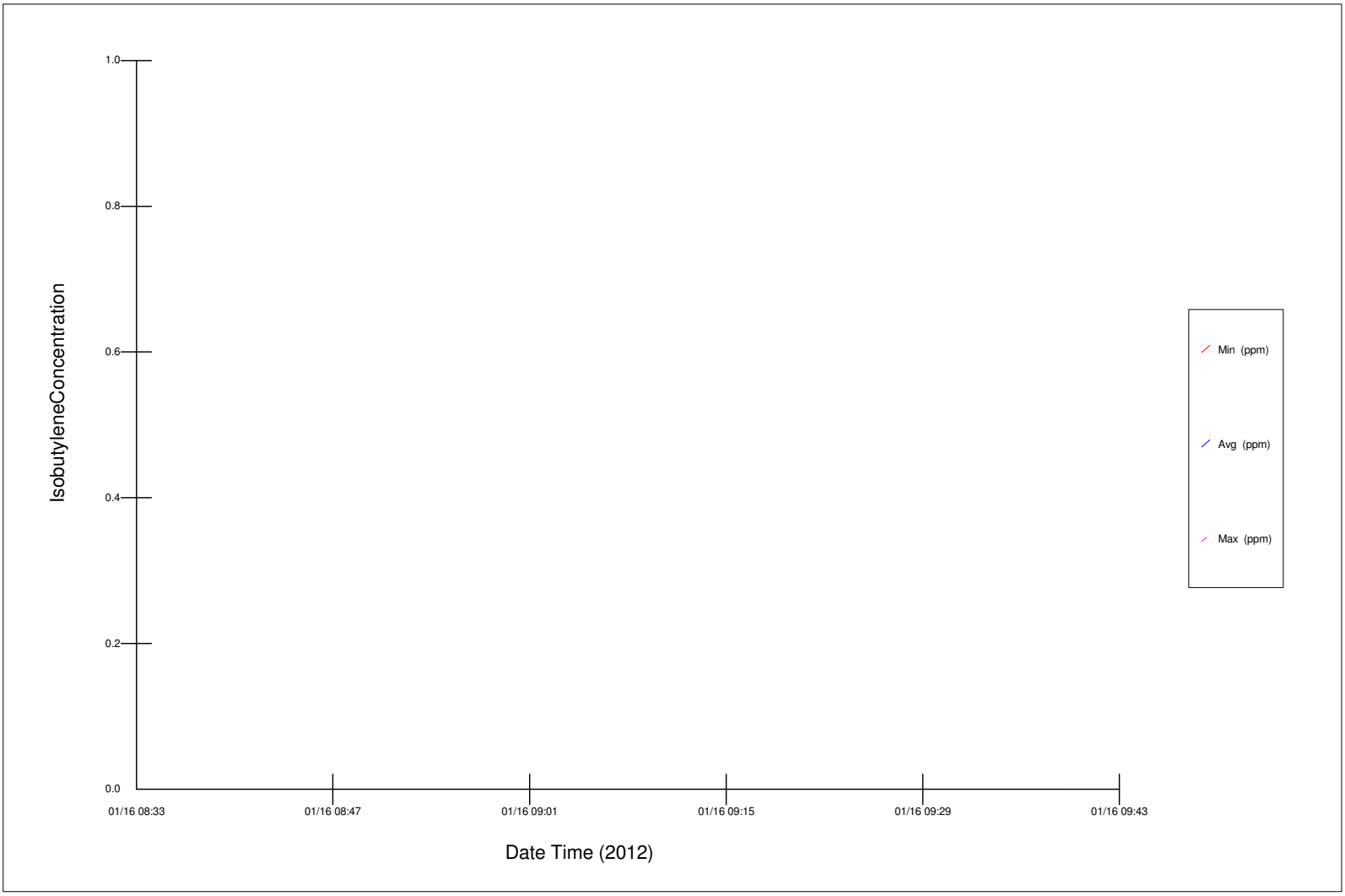

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/10 10:55
01/10 11:08
01/10 11:21
01/10 11:34
01/10 11:47
01/10 12:00
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000046
Data Points: 63 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	10:55	0.0	0.0	0.0
2	01/10/2012	10:56	0.0	0.0	0.0
3	01/10/2012	10:57	0.0	0.0	0.0
4	01/10/2012	10:58	0.0	0.0	0.0
5	01/10/2012	10:59	0.0	0.0	0.0
6	01/10/2012	11:00	0.0	0.0	0.0
7	01/10/2012	11:01	0.0	0.0	0.0
8	01/10/2012	11:02	0.0	0.0	0.0
9	01/10/2012	11:03	0.0	0.0	0.0
10	01/10/2012	11:04	0.0	0.0	0.0
11	01/10/2012	11:05	0.0	0.0	0.0
12	01/10/2012	11:06	0.0	0.0	0.0
13	01/10/2012	11:07	0.0	0.0	0.0
14	01/10/2012	11:08	0.0	0.0	0.0
15	01/10/2012	11:09	0.0	0.0	0.0
16	01/10/2012	11:10	0.0	0.0	0.0
17	01/10/2012	11:11	0.0	0.0	0.0
18	01/10/2012	11:12	0.0	0.0	0.0
19	01/10/2012	11:13	0.0	0.0	0.0
20	01/10/2012	11:14	0.0	0.0	0.0
21	01/10/2012	11:15	0.0	0.0	0.0
22	01/10/2012	11:16	0.0	0.0	0.0
23	01/10/2012	11:17	0.0	0.0	0.0
24	01/10/2012	11:18	0.0	0.0	0.0
25	01/10/2012	11:19	0.0	0.0	0.0
26	01/10/2012	11:20	0.0	0.0	0.0
27	01/10/2012	11:21	0.0	0.0	0.0
28	01/10/2012	11:22	0.0	0.0	0.0
29	01/10/2012	11:23	0.0	0.0	0.0
30	01/10/2012	11:24	0.0	0.0	0.0
31	01/10/2012	11:25	0.0	0.0	0.0
32	01/10/2012	11:26	0.0	0.0	0.0
33	01/10/2012	11:27	0.0	0.0	0.0
34	01/10/2012	11:28	0.0	0.0	0.0
35	01/10/2012	11:29	0.0	0.0	0.0
36	01/10/2012	11:30	0.0	0.0	0.0
37	01/10/2012	11:31	0.0	0.0	0.0
38	01/10/2012	11:32	0.0	0.0	0.0
39	01/10/2012	11:33	0.0	0.0	0.0
40	01/10/2012	11:34	0.0	0.0	0.0
41	01/10/2012	11:35	0.0	0.0	0.0
42	01/10/2012	11:36	0.0	0.0	0.0
43	01/10/2012	11:37	0.0	0.0	0.0
44	01/10/2012	11:38	0.0	0.0	0.0
45	01/10/2012	11:39	0.0	0.0	0.0
46	01/10/2012	11:40	0.0	0.0	0.0
47	01/10/2012	11:41	0.0	0.0	0.0
48	01/10/2012	11:42	0.0	0.0	0.0
49	01/10/2012	11:43	0.0	0.0	0.0
50	01/10/2012	11:44	0.0	0.0	0.0
51	01/10/2012	11:45	0.0	0.0	0.0
52	01/10/2012	11:46	0.0	0.0	0.0
53	01/10/2012	11:47	0.0	0.0	0.0
54	01/10/2012	11:48	0.0	0.0	0.0
55	01/10/2012	11:49	0.0	0.0	0.0
56	01/10/2012	11:50	0.0	0.0	0.0
57	01/10/2012	11:51	0.0	0.0	0.0
58	01/10/2012	11:52	0.0	0.0	0.0

59	01/10/2012 11:53	0.0	0.0	0.0
60	01/10/2012 11:54	0.0	0.0	0.0
61	01/10/2012 11:55	0.0	0.0	0.0
62	01/10/2012 11:56	0.0	0.0	0.0
63	01/10/2012 11:57	0.0	0.0	0.0

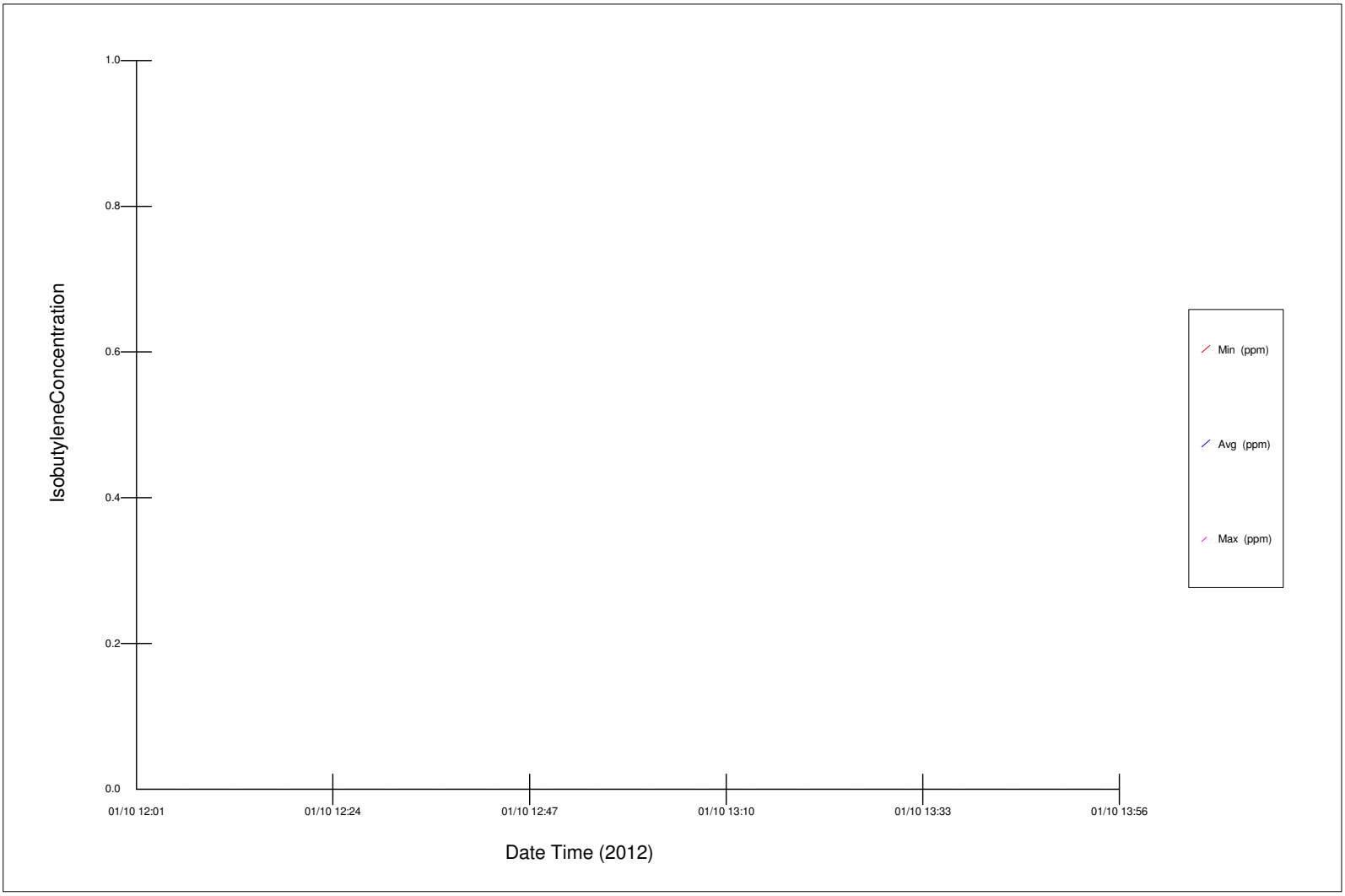

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/16 08:33
01/16 08:47
01/16 09:01
01/16 09:15
01/16 09:29
01/16 09:43
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000041
Data Points: 67 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	08:33	0.0	0.0	0.0
2	01/16/2012	08:34	0.0	0.0	0.0
3	01/16/2012	08:35	0.0	0.0	0.0
4	01/16/2012	08:36	0.0	0.0	0.0
5	01/16/2012	08:37	0.0	0.0	0.0
6	01/16/2012	08:38	0.0	0.0	0.0
7	01/16/2012	08:39	0.0	0.0	0.0
8	01/16/2012	08:40	0.0	0.0	0.0
9	01/16/2012	08:41	0.0	0.0	0.0
10	01/16/2012	08:42	0.0	0.0	0.0
11	01/16/2012	08:43	0.0	0.0	0.0
12	01/16/2012	08:44	0.0	0.0	0.0
13	01/16/2012	08:45	0.0	0.0	0.0
14	01/16/2012	08:46	0.0	0.0	0.0
15	01/16/2012	08:47	0.0	0.0	0.0
16	01/16/2012	08:48	0.0	0.0	0.0
17	01/16/2012	08:49	0.0	0.0	0.0
18	01/16/2012	08:50	0.0	0.0	0.0
19	01/16/2012	08:51	0.0	0.0	0.0
20	01/16/2012	08:52	0.0	0.0	0.0
21	01/16/2012	08:53	0.0	0.0	0.0
22	01/16/2012	08:54	0.0	0.0	0.0
23	01/16/2012	08:55	0.0	0.0	0.0
24	01/16/2012	08:56	0.0	0.0	0.0
25	01/16/2012	08:57	0.0	0.0	0.0
26	01/16/2012	08:58	0.0	0.0	0.0
27	01/16/2012	08:59	0.0	0.0	0.0
28	01/16/2012	09:00	0.0	0.0	0.0
29	01/16/2012	09:01	0.0	0.0	0.0
30	01/16/2012	09:02	0.0	0.0	0.0
31	01/16/2012	09:03	0.0	0.0	0.0
32	01/16/2012	09:04	0.0	0.0	0.0
33	01/16/2012	09:05	0.0	0.0	0.0
34	01/16/2012	09:06	0.0	0.0	0.0
35	01/16/2012	09:07	0.0	0.0	0.0
36	01/16/2012	09:08	0.0	0.0	0.0
37	01/16/2012	09:09	0.0	0.0	0.0
38	01/16/2012	09:10	0.0	0.0	0.0
39	01/16/2012	09:11	0.0	0.0	0.0
40	01/16/2012	09:12	0.0	0.0	0.0
41	01/16/2012	09:13	0.0	0.0	0.0
42	01/16/2012	09:14	0.0	0.0	0.0
43	01/16/2012	09:15	0.0	0.0	0.0
44	01/16/2012	09:16	0.0	0.0	0.0
45	01/16/2012	09:17	0.0	0.0	0.0
46	01/16/2012	09:18	0.0	0.0	0.0
47	01/16/2012	09:19	0.0	0.0	0.0
48	01/16/2012	09:20	0.0	0.0	0.0
49	01/16/2012	09:21	0.0	0.0	0.0
50	01/16/2012	09:22	0.0	0.0	0.0
51	01/16/2012	09:23	0.0	0.0	0.0
52	01/16/2012	09:24	0.0	0.0	0.0
53	01/16/2012	09:25	0.0	0.0	0.0
54	01/16/2012	09:26	0.0	0.0	0.0
55	01/16/2012	09:27	0.0	0.0	0.0
56	01/16/2012	09:28	0.0	0.0	0.0
57	01/16/2012	09:29	0.0	0.0	0.0
58	01/16/2012	09:30	0.0	0.0	0.0

59	01/16/2012 09:31	0.0	0.0	0.0
60	01/16/2012 09:32	0.0	0.0	0.0
61	01/16/2012 09:33	0.0	0.0	0.0
62	01/16/2012 09:34	0.0	0.0	0.0
63	01/16/2012 09:35	0.0	0.0	0.0
64	01/16/2012 09:36	0.0	0.0	0.0
65	01/16/2012 09:37	0.0	0.0	0.0
66	01/16/2012 09:38	0.0	0.0	0.0
67	01/16/2012 09:39	0.0	0.0	0.0

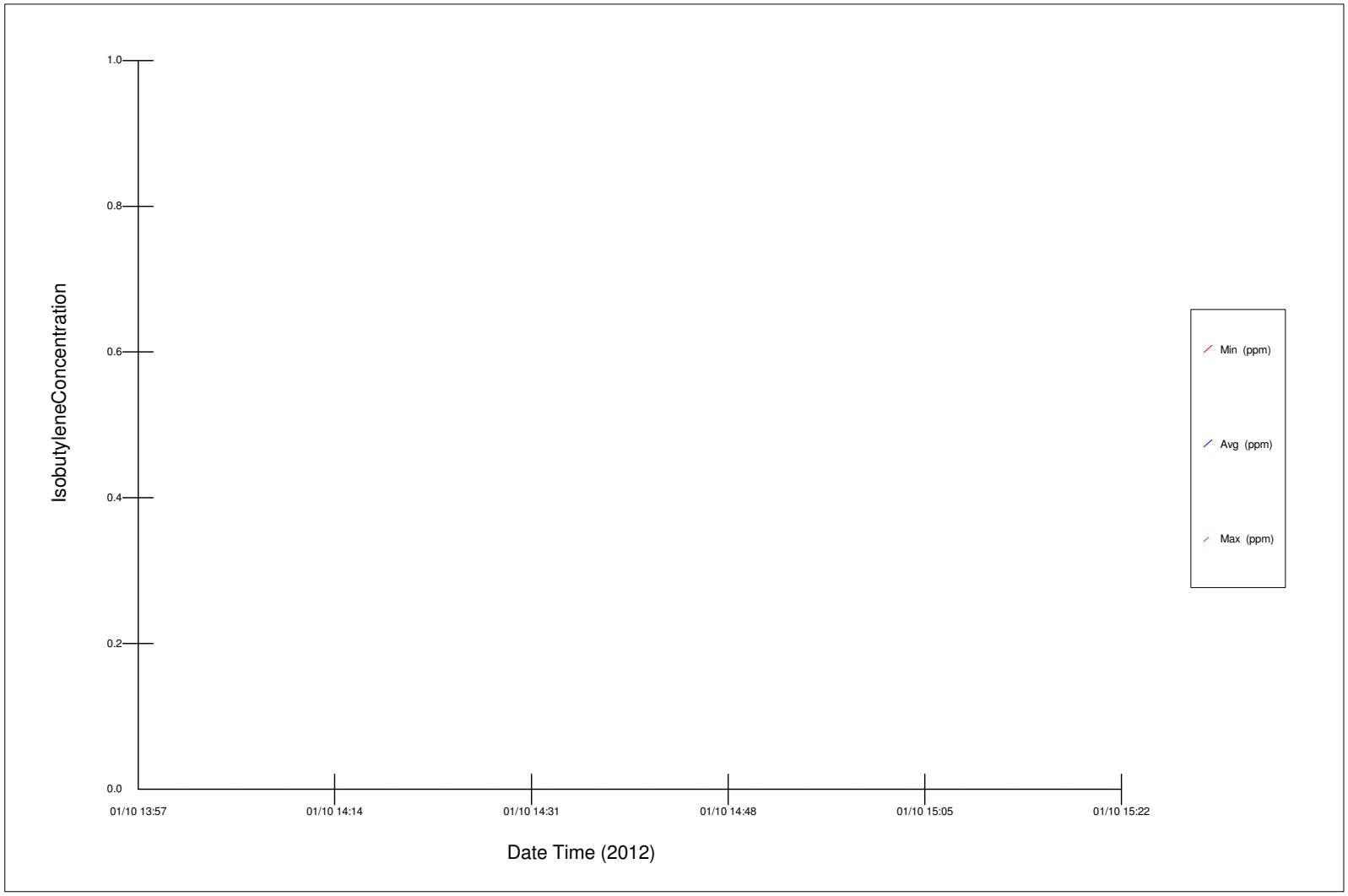

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 12:01
01/10 12:24
01/10 12:47
01/10 13:10
01/10 13:33
01/10 13:56
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000047
Data Points: 114 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	12:01	0.0	0.0	0.0
2	01/10/2012	12:02	0.0	0.0	0.0
3	01/10/2012	12:03	0.0	0.0	0.0
4	01/10/2012	12:04	0.0	0.0	0.0
5	01/10/2012	12:05	0.0	0.0	0.0
6	01/10/2012	12:06	0.0	0.0	0.0
7	01/10/2012	12:07	0.0	0.0	0.0
8	01/10/2012	12:08	0.0	0.0	0.0
9	01/10/2012	12:09	0.0	0.0	0.0
10	01/10/2012	12:10	0.0	0.0	0.0
11	01/10/2012	12:11	0.0	0.0	0.0
12	01/10/2012	12:12	0.0	0.0	0.0
13	01/10/2012	12:13	0.0	0.0	0.0
14	01/10/2012	12:14	0.0	0.0	0.0
15	01/10/2012	12:15	0.0	0.0	0.0
16	01/10/2012	12:16	0.0	0.0	0.0
17	01/10/2012	12:17	0.0	0.0	0.0
18	01/10/2012	12:18	0.0	0.0	0.0
19	01/10/2012	12:19	0.0	0.0	0.0
20	01/10/2012	12:20	0.0	0.0	0.0
21	01/10/2012	12:21	0.0	0.0	0.0
22	01/10/2012	12:22	0.0	0.0	0.0
23	01/10/2012	12:23	0.0	0.0	0.0
24	01/10/2012	12:24	0.0	0.0	0.0
25	01/10/2012	12:25	0.0	0.0	0.0
26	01/10/2012	12:26	0.0	0.0	0.0
27	01/10/2012	12:27	0.0	0.0	0.0
28	01/10/2012	12:28	0.0	0.0	0.0
29	01/10/2012	12:29	0.0	0.0	0.0
30	01/10/2012	12:30	0.0	0.0	0.0
31	01/10/2012	12:31	0.0	0.0	0.0
32	01/10/2012	12:32	0.0	0.0	0.0
33	01/10/2012	12:33	0.0	0.0	0.0
34	01/10/2012	12:34	0.0	0.0	0.0
35	01/10/2012	12:35	0.0	0.0	0.0
36	01/10/2012	12:36	0.0	0.0	0.0
37	01/10/2012	12:37	0.0	0.0	0.0
38	01/10/2012	12:38	0.0	0.0	0.0
39	01/10/2012	12:39	0.0	0.0	0.0
40	01/10/2012	12:40	0.0	0.0	0.0
41	01/10/2012	12:41	0.0	0.0	0.0
42	01/10/2012	12:42	0.0	0.0	0.0
43	01/10/2012	12:43	0.0	0.0	0.0
44	01/10/2012	12:44	0.0	0.0	0.0
45	01/10/2012	12:45	0.0	0.0	0.0
46	01/10/2012	12:46	0.0	0.0	0.0
47	01/10/2012	12:47	0.0	0.0	0.0
48	01/10/2012	12:48	0.0	0.0	0.0
49	01/10/2012	12:49	0.0	0.0	0.0
50	01/10/2012	12:50	0.0	0.0	0.0
51	01/10/2012	12:51	0.0	0.0	0.0
52	01/10/2012	12:52	0.0	0.0	0.0
53	01/10/2012	12:53	0.0	0.0	0.0
54	01/10/2012	12:54	0.0	0.0	0.0
55	01/10/2012	12:55	0.0	0.0	0.0
56	01/10/2012	12:56	0.0	0.0	0.0
57	01/10/2012	12:57	0.0	0.0	0.0
58	01/10/2012	12:58	0.0	0.0	0.0

59	01/10/2012 12:59	0.0	0.0	0.0
60	01/10/2012 13:00	0.0	0.0	0.0
61	01/10/2012 13:01	0.0	0.0	0.0
62	01/10/2012 13:02	0.0	0.0	0.0
63	01/10/2012 13:03	0.0	0.0	0.0
64	01/10/2012 13:04	0.0	0.0	0.0
65	01/10/2012 13:05	0.0	0.0	0.0
66	01/10/2012 13:06	0.0	0.0	0.0
67	01/10/2012 13:07	0.0	0.0	0.0
68	01/10/2012 13:08	0.0	0.0	0.0
69	01/10/2012 13:09	0.0	0.0	0.0
70	01/10/2012 13:10	0.0	0.0	0.0
71	01/10/2012 13:11	0.0	0.0	0.0
72	01/10/2012 13:12	0.0	0.0	0.0
73	01/10/2012 13:13	0.0	0.0	0.0
74	01/10/2012 13:14	0.0	0.0	0.0
75	01/10/2012 13:15	0.0	0.0	0.0
76	01/10/2012 13:16	0.0	0.0	0.0
77	01/10/2012 13:17	0.0	0.0	0.0
78	01/10/2012 13:18	0.0	0.0	0.0
79	01/10/2012 13:19	0.0	0.0	0.0
80	01/10/2012 13:20	0.0	0.0	0.0
81	01/10/2012 13:21	0.0	0.0	0.0
82	01/10/2012 13:22	0.0	0.0	0.0
83	01/10/2012 13:23	0.0	0.0	0.0
84	01/10/2012 13:24	0.0	0.0	0.0
85	01/10/2012 13:25	0.0	0.0	0.0
86	01/10/2012 13:26	0.0	0.0	0.0
87	01/10/2012 13:27	0.0	0.0	0.0
88	01/10/2012 13:28	0.0	0.0	0.0
89	01/10/2012 13:29	0.0	0.0	0.0
90	01/10/2012 13:30	0.0	0.0	0.0
91	01/10/2012 13:31	0.0	0.0	0.0
92	01/10/2012 13:32	0.0	0.0	0.0
93	01/10/2012 13:33	0.0	0.0	0.0
94	01/10/2012 13:34	0.0	0.0	0.0
95	01/10/2012 13:35	0.0	0.0	0.0
96	01/10/2012 13:36	0.0	0.0	0.0
97	01/10/2012 13:37	0.0	0.0	0.0
98	01/10/2012 13:38	0.0	0.0	0.0
99	01/10/2012 13:39	0.0	0.0	0.0
100	01/10/2012 13:40	0.0	0.0	0.0
101	01/10/2012 13:41	0.0	0.0	0.0
102	01/10/2012 13:42	0.0	0.0	0.0
103	01/10/2012 13:43	0.0	0.0	0.0
104	01/10/2012 13:44	0.0	0.0	0.0
105	01/10/2012 13:45	0.0	0.0	0.0
106	01/10/2012 13:46	0.0	0.0	0.0
107	01/10/2012 13:47	0.0	0.0	0.0
108	01/10/2012 13:48	0.0	0.0	0.0
109	01/10/2012 13:49	0.0	0.0	0.0
110	01/10/2012 13:50	0.0	0.0	0.0
111	01/10/2012 13:51	0.0	0.0	0.0
112	01/10/2012 13:52	0.0	0.0	0.0
113	01/10/2012 13:53	0.0	0.0	0.0
114	01/10/2012 13:54	0.0	0.0	0.0

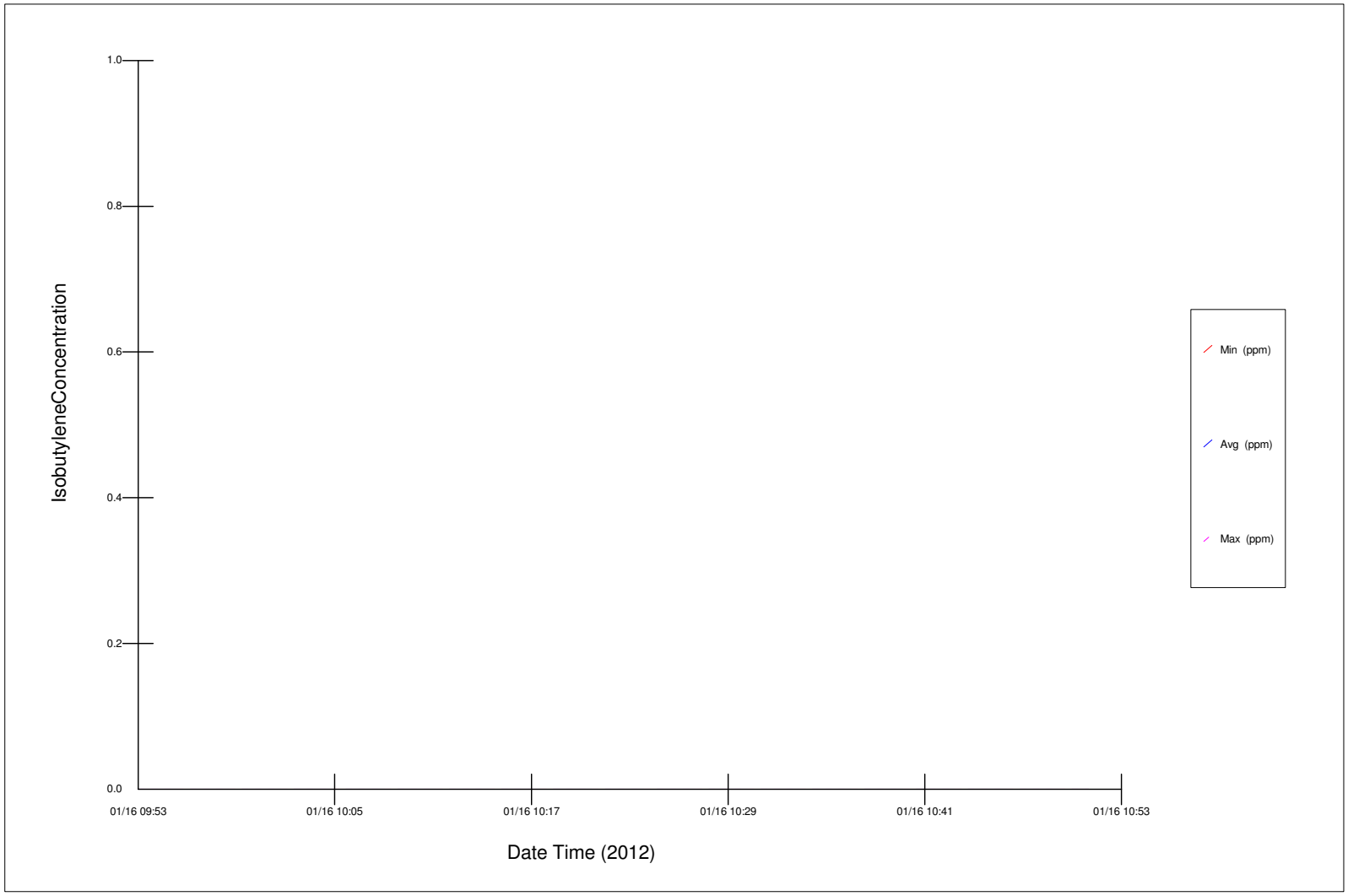

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/10 13:57
01/10 14:14
01/10 14:31
01/10 14:48
01/10 15:05
01/10 15:22
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000048
Data Points: 85 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/10/2012	13:57	0.0	0.0	0.0
2	01/10/2012	13:58	0.0	0.0	0.0
3	01/10/2012	13:59	0.0	0.0	0.0
4	01/10/2012	14:00	0.0	0.0	0.0
5	01/10/2012	14:01	0.0	0.0	0.0
6	01/10/2012	14:02	0.0	0.0	0.0
7	01/10/2012	14:03	0.0	0.0	0.0
8	01/10/2012	14:04	0.0	0.0	0.0
9	01/10/2012	14:05	0.0	0.0	0.0
10	01/10/2012	14:06	0.0	0.0	0.0
11	01/10/2012	14:07	0.0	0.0	0.0
12	01/10/2012	14:08	0.0	0.0	0.0
13	01/10/2012	14:09	0.0	0.0	0.0
14	01/10/2012	14:10	0.0	0.0	0.0
15	01/10/2012	14:11	0.0	0.0	0.0
16	01/10/2012	14:12	0.0	0.0	0.0
17	01/10/2012	14:13	0.0	0.0	0.0
18	01/10/2012	14:14	0.0	0.0	0.0
19	01/10/2012	14:15	0.0	0.0	0.0
20	01/10/2012	14:16	0.0	0.0	0.0
21	01/10/2012	14:17	0.0	0.0	0.0
22	01/10/2012	14:18	0.0	0.0	0.0
23	01/10/2012	14:19	0.0	0.0	0.0
24	01/10/2012	14:20	0.0	0.0	0.0
25	01/10/2012	14:21	0.0	0.0	0.0
26	01/10/2012	14:22	0.0	0.0	0.0
27	01/10/2012	14:23	0.0	0.0	0.0
28	01/10/2012	14:24	0.0	0.0	0.0
29	01/10/2012	14:25	0.0	0.0	0.0
30	01/10/2012	14:26	0.0	0.0	0.0
31	01/10/2012	14:27	0.0	0.0	0.0
32	01/10/2012	14:28	0.0	0.0	0.0
33	01/10/2012	14:29	0.0	0.0	0.0
34	01/10/2012	14:30	0.0	0.0	0.0
35	01/10/2012	14:31	0.0	0.0	0.0
36	01/10/2012	14:32	0.0	0.0	0.0
37	01/10/2012	14:33	0.0	0.0	0.0
38	01/10/2012	14:34	0.0	0.0	0.0
39	01/10/2012	14:35	0.0	0.0	0.0
40	01/10/2012	14:36	0.0	0.0	0.0
41	01/10/2012	14:37	0.0	0.0	0.0
42	01/10/2012	14:38	0.0	0.0	0.0
43	01/10/2012	14:39	0.0	0.0	0.0
44	01/10/2012	14:40	0.0	0.0	0.0
45	01/10/2012	14:41	0.0	0.0	0.0
46	01/10/2012	14:42	0.0	0.0	0.0
47	01/10/2012	14:43	0.0	0.0	0.0
48	01/10/2012	14:44	0.0	0.0	0.0
49	01/10/2012	14:45	0.0	0.0	0.0
50	01/10/2012	14:46	0.0	0.0	0.0
51	01/10/2012	14:47	0.0	0.0	0.0
52	01/10/2012	14:48	0.0	0.0	0.0
53	01/10/2012	14:49	0.0	0.0	0.0
54	01/10/2012	14:50	0.0	0.0	0.0
55	01/10/2012	14:51	0.0	0.0	0.0
56	01/10/2012	14:52	0.0	0.0	0.0
57	01/10/2012	14:53	0.0	0.0	0.0
58	01/10/2012	14:54	0.0	0.0	0.0

59	01/10/2012 14:55	0.0	0.0	0.0
60	01/10/2012 14:56	0.0	0.0	0.0
61	01/10/2012 14:57	0.0	0.0	0.0
62	01/10/2012 14:58	0.0	0.0	0.0
63	01/10/2012 14:59	0.0	0.0	0.0
64	01/10/2012 15:00	0.0	0.0	0.0
65	01/10/2012 15:01	0.0	0.0	0.0
66	01/10/2012 15:02	0.0	0.0	0.0
67	01/10/2012 15:03	0.0	0.0	0.0
68	01/10/2012 15:04	0.0	0.0	0.0
69	01/10/2012 15:05	0.0	0.0	0.0
70	01/10/2012 15:06	0.0	0.0	0.0
71	01/10/2012 15:07	0.0	0.0	0.0
72	01/10/2012 15:08	0.0	0.0	0.0
73	01/10/2012 15:09	0.0	0.0	0.0
74	01/10/2012 15:10	0.0	0.0	0.0
75	01/10/2012 15:11	0.0	0.0	0.0
76	01/10/2012 15:12	0.0	0.0	0.0
77	01/10/2012 15:13	0.0	0.0	0.0
78	01/10/2012 15:14	0.0	0.0	0.0
79	01/10/2012 15:15	0.0	0.0	0.0
80	01/10/2012 15:16	0.0	0.0	0.0
81	01/10/2012 15:17	0.0	0.0	0.0
82	01/10/2012 15:18	0.0	0.0	0.0
83	01/10/2012 15:19	0.0	0.0	0.0
84	01/10/2012 15:20	0.0	0.0	0.0
85	01/10/2012 15:21	0.0	0.0	0.0

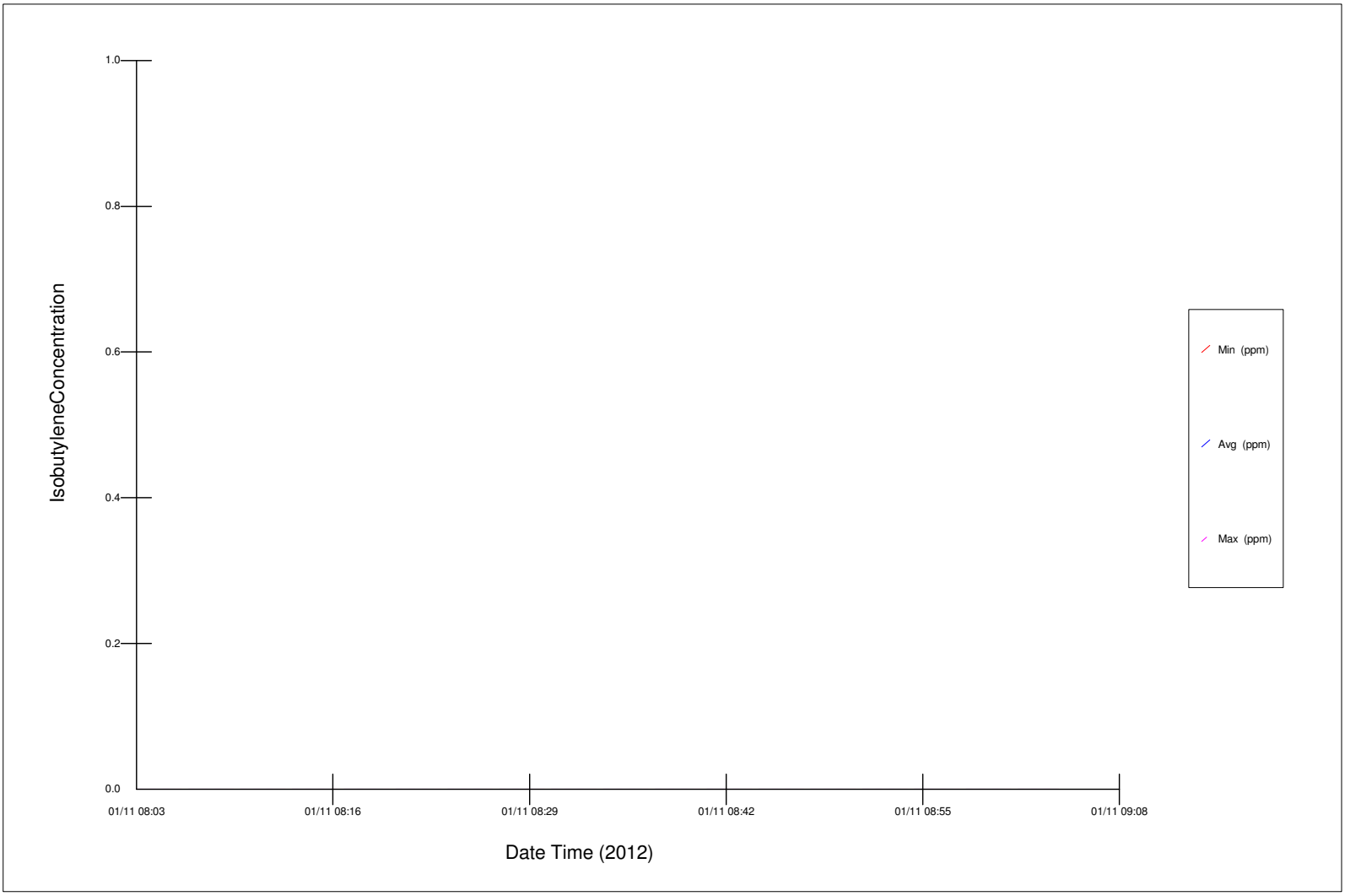

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/16 09:53
01/16 10:05
01/16 10:17
01/16 10:29
01/16 10:41
01/16 10:53
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000042
Data Points: 59 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	09:53	0.0	0.0	0.0
2	01/16/2012	09:54	0.0	0.0	0.0
3	01/16/2012	09:55	0.0	0.0	0.0
4	01/16/2012	09:56	0.0	0.0	0.0
5	01/16/2012	09:57	0.0	0.0	0.0
6	01/16/2012	09:58	0.0	0.0	0.0
7	01/16/2012	09:59	0.0	0.0	0.0
8	01/16/2012	10:00	0.0	0.0	0.0
9	01/16/2012	10:01	0.0	0.0	0.0
10	01/16/2012	10:02	0.0	0.0	0.0
11	01/16/2012	10:03	0.0	0.0	0.0
12	01/16/2012	10:04	0.0	0.0	0.0
13	01/16/2012	10:05	0.0	0.0	0.0
14	01/16/2012	10:06	0.0	0.0	0.0
15	01/16/2012	10:07	0.0	0.0	0.0
16	01/16/2012	10:08	0.0	0.0	0.0
17	01/16/2012	10:09	0.0	0.0	0.0
18	01/16/2012	10:10	0.0	0.0	0.0
19	01/16/2012	10:11	0.0	0.0	0.0
20	01/16/2012	10:12	0.0	0.0	0.0
21	01/16/2012	10:13	0.0	0.0	0.0
22	01/16/2012	10:14	0.0	0.0	0.0
23	01/16/2012	10:15	0.0	0.0	0.0
24	01/16/2012	10:16	0.0	0.0	0.0
25	01/16/2012	10:17	0.0	0.0	0.0
26	01/16/2012	10:18	0.0	0.0	0.0
27	01/16/2012	10:19	0.0	0.0	0.0
28	01/16/2012	10:20	0.0	0.0	0.0
29	01/16/2012	10:21	0.0	0.0	0.0
30	01/16/2012	10:22	0.0	0.0	0.0
31	01/16/2012	10:23	0.0	0.0	0.0
32	01/16/2012	10:24	0.0	0.0	0.0
33	01/16/2012	10:25	0.0	0.0	0.0
34	01/16/2012	10:26	0.0	0.0	0.0
35	01/16/2012	10:27	0.0	0.0	0.0
36	01/16/2012	10:28	0.0	0.0	0.0
37	01/16/2012	10:29	0.0	0.0	0.0
38	01/16/2012	10:30	0.0	0.0	0.0
39	01/16/2012	10:31	0.0	0.0	0.0
40	01/16/2012	10:32	0.0	0.0	0.0
41	01/16/2012	10:33	0.0	0.0	0.0
42	01/16/2012	10:34	0.0	0.0	0.0
43	01/16/2012	10:35	0.0	0.0	0.0
44	01/16/2012	10:36	0.0	0.0	0.0
45	01/16/2012	10:37	0.0	0.0	0.0
46	01/16/2012	10:38	0.0	0.0	0.0
47	01/16/2012	10:39	0.0	0.0	0.0
48	01/16/2012	10:40	0.0	0.0	0.0
49	01/16/2012	10:41	0.0	0.0	0.0
50	01/16/2012	10:42	0.0	0.0	0.0
51	01/16/2012	10:43	0.0	0.0	0.0
52	01/16/2012	10:44	0.0	0.0	0.0
53	01/16/2012	10:45	0.0	0.0	0.0
54	01/16/2012	10:46	0.0	0.0	0.0
55	01/16/2012	10:47	0.0	0.0	0.0
56	01/16/2012	10:48	0.0	0.0	0.0
57	01/16/2012	10:49	0.0	0.0	0.0
58	01/16/2012	10:50	0.0	0.0	0.0

59	01/16/2012 10:51	0.0	0.0	0.0

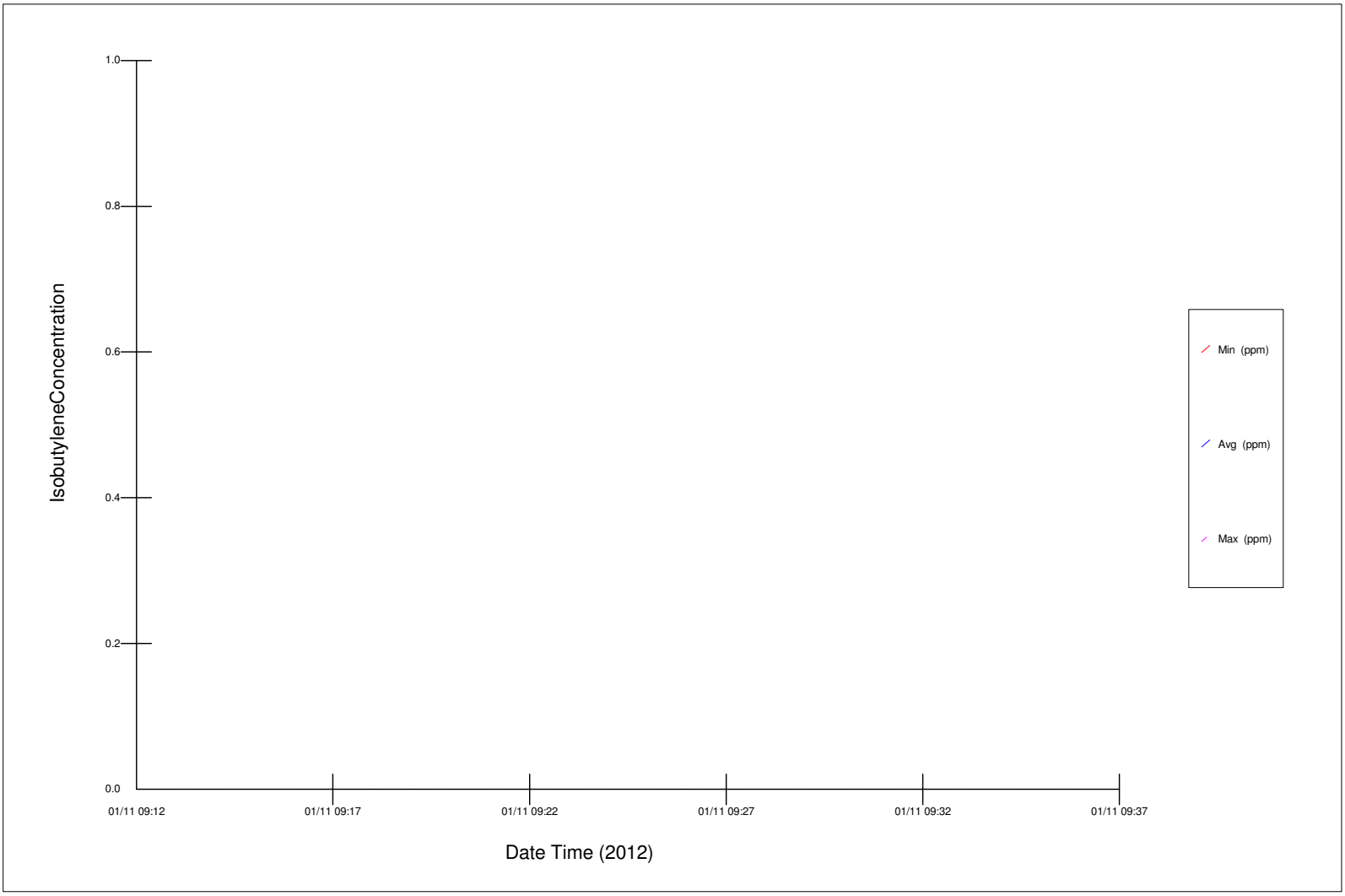

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 08:03
01/11 08:16
01/11 08:29
01/11 08:42
01/11 08:55
01/11 09:08
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000050
Data Points: 62 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	08:03	0.0	0.0	0.0
2	01/11/2012	08:04	0.0	0.0	0.0
3	01/11/2012	08:05	0.0	0.0	0.0
4	01/11/2012	08:06	0.0	0.0	0.0
5	01/11/2012	08:07	0.0	0.0	0.0
6	01/11/2012	08:08	0.0	0.0	0.0
7	01/11/2012	08:09	0.0	0.0	0.0
8	01/11/2012	08:10	0.0	0.0	0.0
9	01/11/2012	08:11	0.0	0.0	0.0
10	01/11/2012	08:12	0.0	0.0	0.0
11	01/11/2012	08:13	0.0	0.0	0.0
12	01/11/2012	08:14	0.0	0.0	0.0
13	01/11/2012	08:15	0.0	0.0	0.0
14	01/11/2012	08:16	0.0	0.0	0.0
15	01/11/2012	08:17	0.0	0.0	0.0
16	01/11/2012	08:18	0.0	0.0	0.0
17	01/11/2012	08:19	0.0	0.0	0.0
18	01/11/2012	08:20	0.0	0.0	0.0
19	01/11/2012	08:21	0.0	0.0	0.0
20	01/11/2012	08:22	0.0	0.0	0.0
21	01/11/2012	08:23	0.0	0.0	0.0
22	01/11/2012	08:24	0.0	0.0	0.0
23	01/11/2012	08:25	0.0	0.0	0.0
24	01/11/2012	08:26	0.0	0.0	0.0
25	01/11/2012	08:27	0.0	0.0	0.0
26	01/11/2012	08:28	0.0	0.0	0.0
27	01/11/2012	08:29	0.0	0.0	0.0
28	01/11/2012	08:30	0.0	0.0	0.0
29	01/11/2012	08:31	0.0	0.0	0.0
30	01/11/2012	08:32	0.0	0.0	0.0
31	01/11/2012	08:33	0.0	0.0	0.0
32	01/11/2012	08:34	0.0	0.0	0.0
33	01/11/2012	08:35	0.0	0.0	0.0
34	01/11/2012	08:36	0.0	0.0	0.0
35	01/11/2012	08:37	0.0	0.0	0.0
36	01/11/2012	08:38	0.0	0.0	0.0
37	01/11/2012	08:39	0.0	0.0	0.0
38	01/11/2012	08:40	0.0	0.0	0.0
39	01/11/2012	08:41	0.0	0.0	0.0
40	01/11/2012	08:42	0.0	0.0	0.0
41	01/11/2012	08:43	0.0	0.0	0.0
42	01/11/2012	08:44	0.0	0.0	0.0
43	01/11/2012	08:45	0.0	0.0	0.0
44	01/11/2012	08:46	0.0	0.0	0.0
45	01/11/2012	08:47	0.0	0.0	0.0
46	01/11/2012	08:48	0.0	0.0	0.0
47	01/11/2012	08:49	0.0	0.0	0.0
48	01/11/2012	08:50	0.0	0.0	0.0
49	01/11/2012	08:51	0.0	0.0	0.0
50	01/11/2012	08:52	0.0	0.0	0.0
51	01/11/2012	08:53	0.0	0.0	0.0
52	01/11/2012	08:54	0.0	0.0	0.0
53	01/11/2012	08:55	0.0	0.0	0.0
54	01/11/2012	08:56	0.0	0.0	0.0
55	01/11/2012	08:57	0.0	0.0	0.0
56	01/11/2012	08:58	0.0	0.0	0.0
57	01/11/2012	08:59	0.0	0.0	0.0
58	01/11/2012	09:00	0.0	0.0	0.0

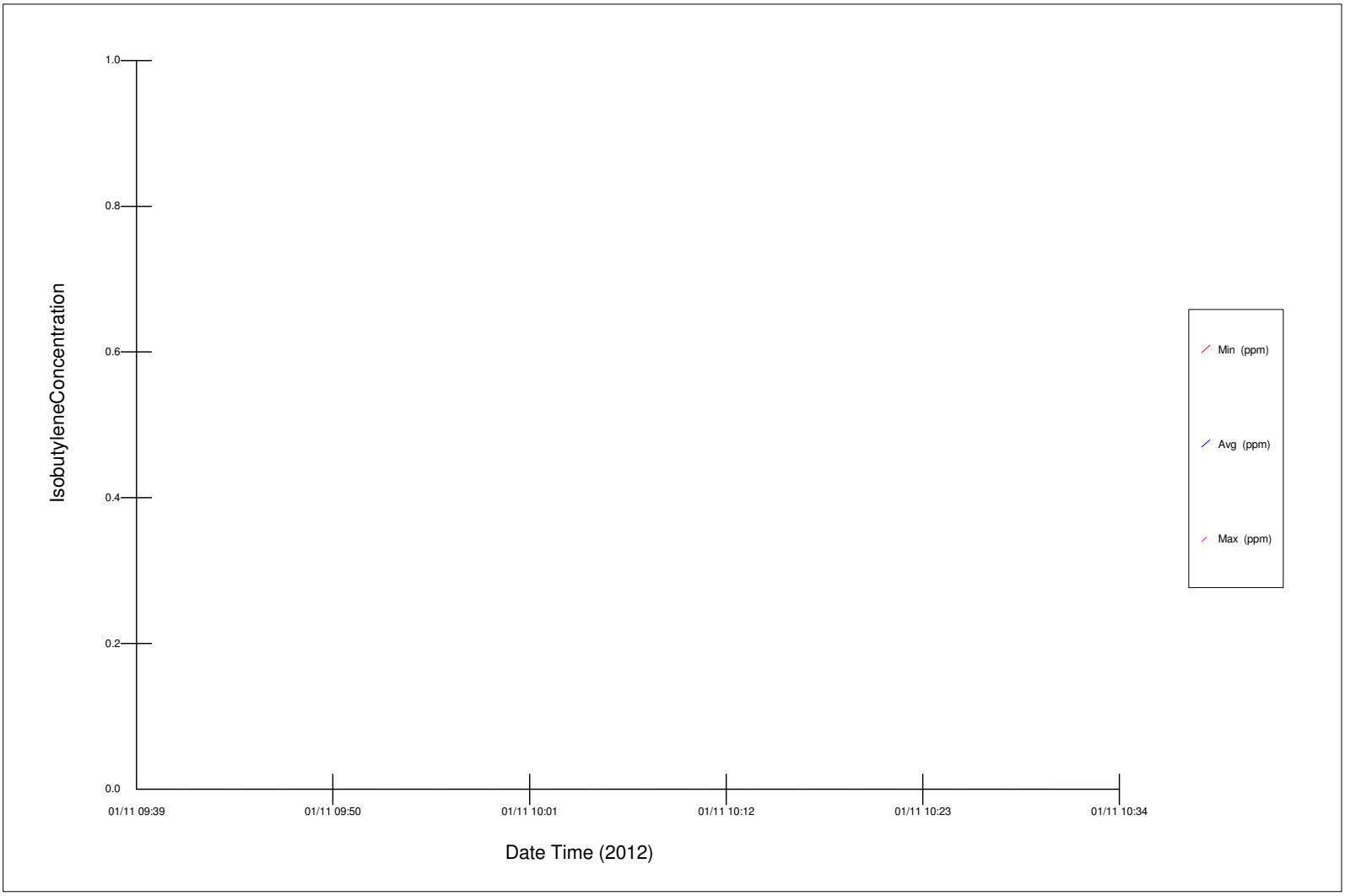
59	01/11/2012 09:01	0.0	0.0	0.0
60	01/11/2012 09:02	0.0	0.0	0.0
61	01/11/2012 09:03	0.0	0.0	0.0
62	01/11/2012 09:04	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/11 09:12
01/11 09:17
01/11 09:22
01/11 09:27
01/11 09:32
01/11 09:37
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000051
Data Points: 25 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

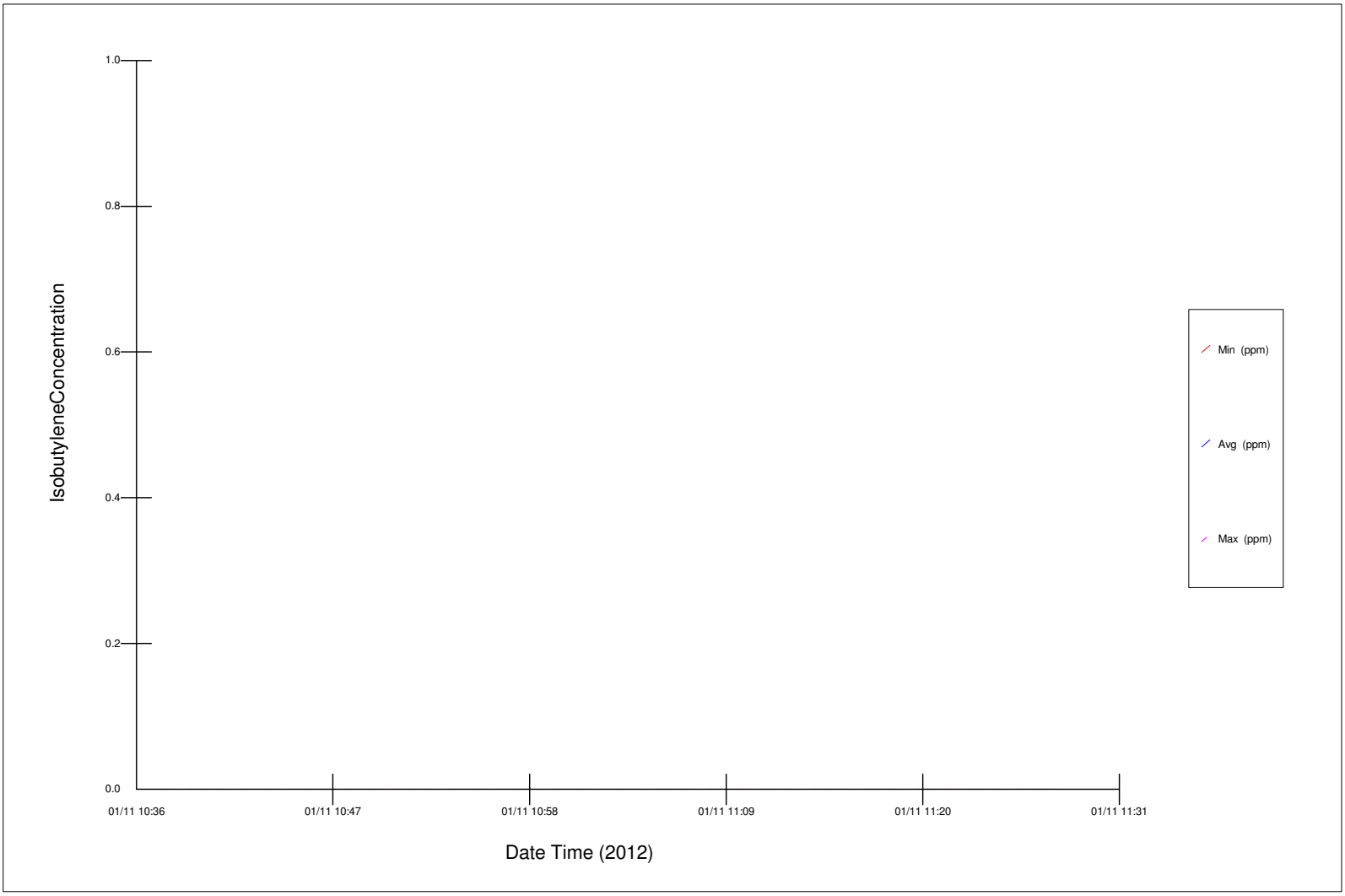
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	09:12	0.0	0.0	0.0
2	01/11/2012	09:13	0.0	0.0	0.0
3	01/11/2012	09:14	0.0	0.0	0.0
4	01/11/2012	09:15	0.0	0.0	0.0
5	01/11/2012	09:16	0.0	0.0	0.0
6	01/11/2012	09:17	0.0	0.0	0.0
7	01/11/2012	09:18	0.0	0.0	0.0
8	01/11/2012	09:19	0.0	0.0	0.0
9	01/11/2012	09:20	0.0	0.0	0.0
10	01/11/2012	09:21	0.0	0.0	0.0
11	01/11/2012	09:22	0.0	0.0	0.0
12	01/11/2012	09:23	0.0	0.0	0.0
13	01/11/2012	09:24	0.0	0.0	0.0
14	01/11/2012	09:25	0.0	0.0	0.0
15	01/11/2012	09:26	0.0	0.0	0.0
16	01/11/2012	09:27	0.0	0.0	0.0
17	01/11/2012	09:28	0.0	0.0	0.0
18	01/11/2012	09:29	0.0	0.0	0.0
19	01/11/2012	09:30	0.0	0.0	0.0
20	01/11/2012	09:31	0.0	0.0	0.0
21	01/11/2012	09:32	0.0	0.0	0.0
22	01/11/2012	09:33	0.0	0.0	0.0
23	01/11/2012	09:34	0.0	0.0	0.0
24	01/11/2012	09:35	0.0	0.0	0.0
25	01/11/2012	09:36	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 09:39
01/11 09:50
01/11 10:01
01/11 10:12
01/11 10:23
01/11 10:34
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000052
Data Points: 52 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

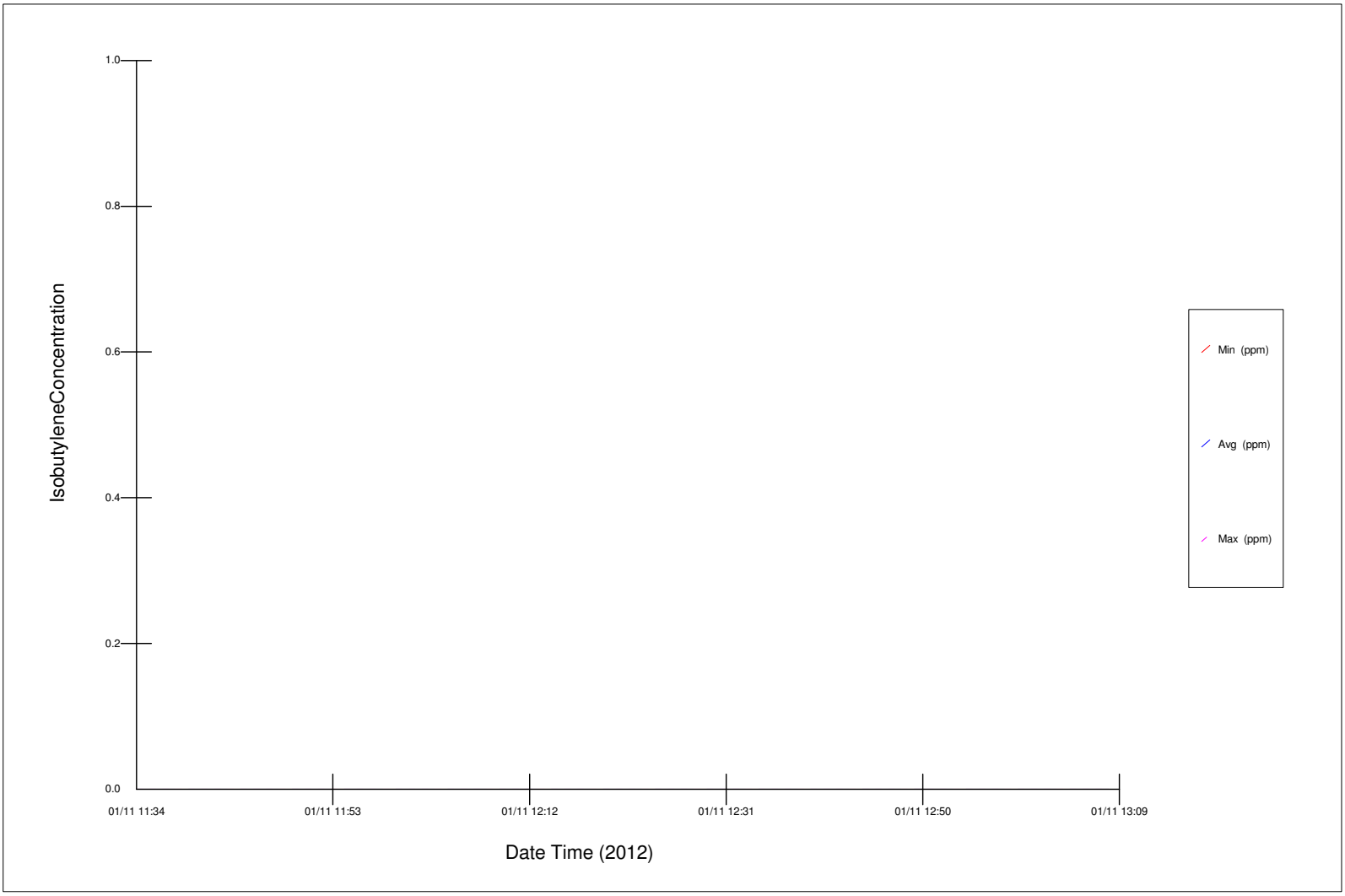
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	09:39	0.0	0.0	0.0
2	01/11/2012	09:40	0.0	0.0	0.0
3	01/11/2012	09:41	0.0	0.0	0.0
4	01/11/2012	09:42	0.0	0.0	0.0
5	01/11/2012	09:43	0.0	0.0	0.0
6	01/11/2012	09:44	0.0	0.0	0.0
7	01/11/2012	09:45	0.0	0.0	0.0
8	01/11/2012	09:46	0.0	0.0	0.0
9	01/11/2012	09:47	0.0	0.0	0.0
10	01/11/2012	09:48	0.0	0.0	0.0
11	01/11/2012	09:49	0.0	0.0	0.0
12	01/11/2012	09:50	0.0	0.0	0.0
13	01/11/2012	09:51	0.0	0.0	0.0
14	01/11/2012	09:52	0.0	0.0	0.0
15	01/11/2012	09:53	0.0	0.0	0.0
16	01/11/2012	09:54	0.0	0.0	0.0
17	01/11/2012	09:55	0.0	0.0	0.0
18	01/11/2012	09:56	0.0	0.0	0.0
19	01/11/2012	09:57	0.0	0.0	0.0
20	01/11/2012	09:58	0.0	0.0	0.0
21	01/11/2012	09:59	0.0	0.0	0.0
22	01/11/2012	10:00	0.0	0.0	0.0
23	01/11/2012	10:01	0.0	0.0	0.0
24	01/11/2012	10:02	0.0	0.0	0.0
25	01/11/2012	10:03	0.0	0.0	0.0
26	01/11/2012	10:04	0.0	0.0	0.0
27	01/11/2012	10:05	0.0	0.0	0.0
28	01/11/2012	10:06	0.0	0.0	0.0
29	01/11/2012	10:07	0.0	0.0	0.0
30	01/11/2012	10:08	0.0	0.0	0.0
31	01/11/2012	10:09	0.0	0.0	0.0
32	01/11/2012	10:10	0.0	0.0	0.0
33	01/11/2012	10:11	0.0	0.0	0.0
34	01/11/2012	10:12	0.0	0.0	0.0
35	01/11/2012	10:13	0.0	0.0	0.0
36	01/11/2012	10:14	0.0	0.0	0.0
37	01/11/2012	10:15	0.0	0.0	0.0
38	01/11/2012	10:16	0.0	0.0	0.0
39	01/11/2012	10:17	0.0	0.0	0.0
40	01/11/2012	10:18	0.0	0.0	0.0
41	01/11/2012	10:19	0.0	0.0	0.0
42	01/11/2012	10:20	0.0	0.0	0.0
43	01/11/2012	10:21	0.0	0.0	0.0
44	01/11/2012	10:22	0.0	0.0	0.0
45	01/11/2012	10:23	0.0	0.0	0.0
46	01/11/2012	10:24	0.0	0.0	0.0
47	01/11/2012	10:25	0.0	0.0	0.0
48	01/11/2012	10:26	0.0	0.0	0.0
49	01/11/2012	10:27	0.0	0.0	0.0
50	01/11/2012	10:28	0.0	0.0	0.0
51	01/11/2012	10:29	0.0	0.0	0.0
52	01/11/2012	10:30	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/11 10:36
01/11 10:47
01/11 10:58
01/11 11:09
01/11 11:20
01/11 11:31
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000053
Data Points: 53 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	10:36	0.0	0.0	0.0
2	01/11/2012	10:37	0.0	0.0	0.0
3	01/11/2012	10:38	0.0	0.0	0.0
4	01/11/2012	10:39	0.0	0.0	0.0
5	01/11/2012	10:40	0.0	0.0	0.0
6	01/11/2012	10:41	0.0	0.0	0.0
7	01/11/2012	10:42	0.0	0.0	0.0
8	01/11/2012	10:43	0.0	0.0	0.0
9	01/11/2012	10:44	0.0	0.0	0.0
10	01/11/2012	10:45	0.0	0.0	0.0
11	01/11/2012	10:46	0.0	0.0	0.0
12	01/11/2012	10:47	0.0	0.0	0.0
13	01/11/2012	10:48	0.0	0.0	0.0
14	01/11/2012	10:49	0.0	0.0	0.0
15	01/11/2012	10:50	0.0	0.0	0.0
16	01/11/2012	10:51	0.0	0.0	0.0
17	01/11/2012	10:52	0.0	0.0	0.0
18	01/11/2012	10:53	0.0	0.0	0.0
19	01/11/2012	10:54	0.0	0.0	0.0
20	01/11/2012	10:55	0.0	0.0	0.0
21	01/11/2012	10:56	0.0	0.0	0.0
22	01/11/2012	10:57	0.0	0.0	0.0
23	01/11/2012	10:58	0.0	0.0	0.0
24	01/11/2012	10:59	0.0	0.0	0.0
25	01/11/2012	11:00	0.0	0.0	0.0
26	01/11/2012	11:01	0.0	0.0	0.0
27	01/11/2012	11:02	0.0	0.0	0.0
28	01/11/2012	11:03	0.0	0.0	0.0
29	01/11/2012	11:04	0.0	0.0	0.0
30	01/11/2012	11:05	0.0	0.0	0.0
31	01/11/2012	11:06	0.0	0.0	0.0
32	01/11/2012	11:07	0.0	0.0	0.0
33	01/11/2012	11:08	0.0	0.0	0.0
34	01/11/2012	11:09	0.0	0.0	0.0
35	01/11/2012	11:10	0.0	0.0	0.0
36	01/11/2012	11:11	0.0	0.0	0.0
37	01/11/2012	11:12	0.0	0.0	0.0
38	01/11/2012	11:13	0.0	0.0	0.0
39	01/11/2012	11:14	0.0	0.0	0.0
40	01/11/2012	11:15	0.0	0.0	0.0
41	01/11/2012	11:16	0.0	0.0	0.0
42	01/11/2012	11:17	0.0	0.0	0.0
43	01/11/2012	11:18	0.0	0.0	0.0
44	01/11/2012	11:19	0.0	0.0	0.0
45	01/11/2012	11:20	0.0	0.0	0.0
46	01/11/2012	11:21	0.0	0.0	0.0
47	01/11/2012	11:22	0.0	0.0	0.0
48	01/11/2012	11:23	0.0	0.0	0.0
49	01/11/2012	11:24	0.0	0.0	0.0
50	01/11/2012	11:25	0.0	0.0	0.0
51	01/11/2012	11:26	0.0	0.0	0.0
52	01/11/2012	11:27	0.0	0.0	0.0
53	01/11/2012	11:28	0.0	0.0	0.0

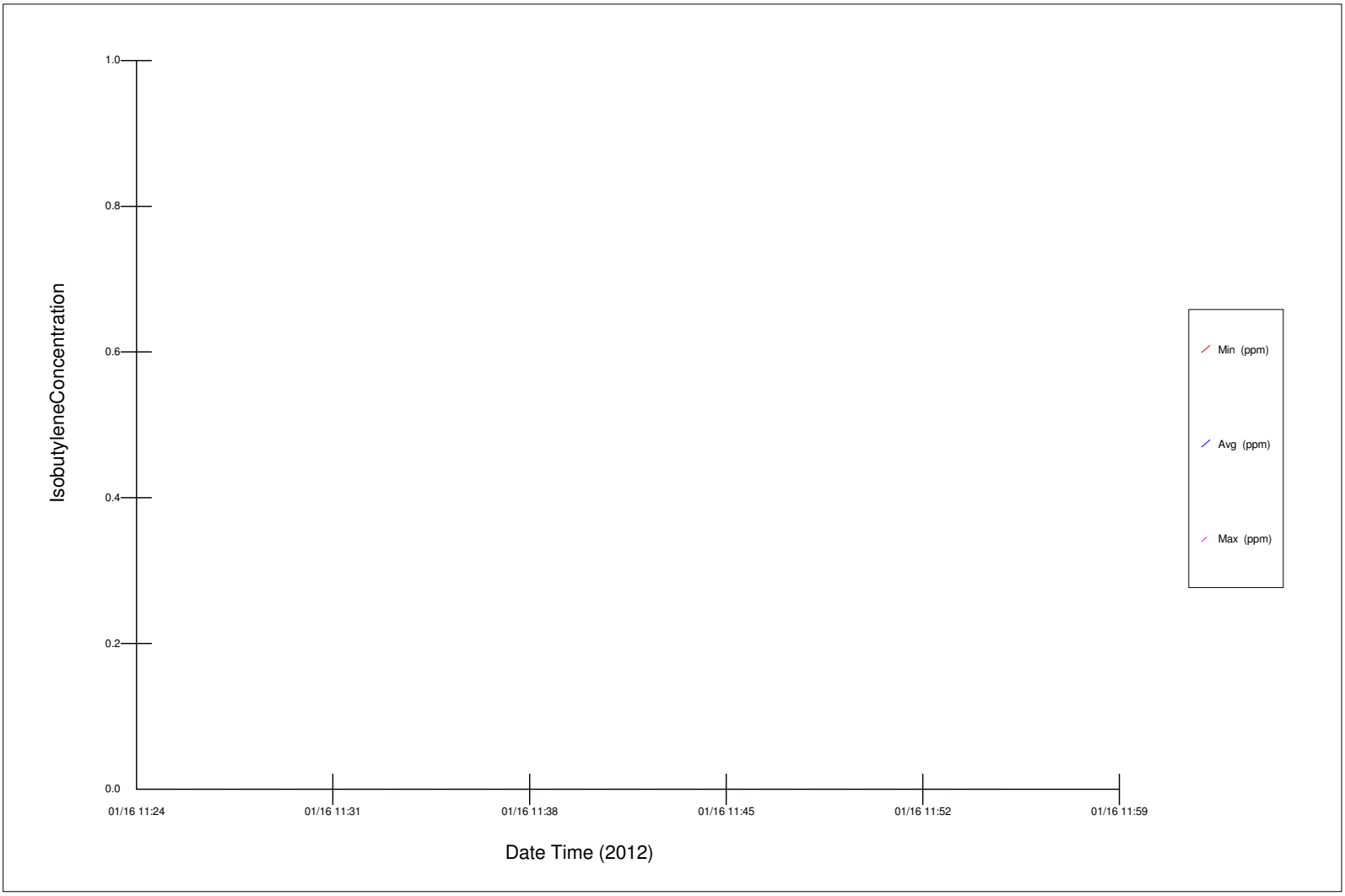

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 11:34
01/11 11:53
01/11 12:12
01/11 12:31
01/11 12:50
01/11 13:09
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000054
Data Points: 95 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	11:34	0.0	0.0	0.0
2	01/11/2012	11:35	0.0	0.0	0.0
3	01/11/2012	11:36	0.0	0.0	0.0
4	01/11/2012	11:37	0.0	0.0	0.0
5	01/11/2012	11:38	0.0	0.0	0.0
6	01/11/2012	11:39	0.0	0.0	0.0
7	01/11/2012	11:40	0.0	0.0	0.0
8	01/11/2012	11:41	0.0	0.0	0.0
9	01/11/2012	11:42	0.0	0.0	0.0
10	01/11/2012	11:43	0.0	0.0	0.0
11	01/11/2012	11:44	0.0	0.0	0.0
12	01/11/2012	11:45	0.0	0.0	0.0
13	01/11/2012	11:46	0.0	0.0	0.0
14	01/11/2012	11:47	0.0	0.0	0.0
15	01/11/2012	11:48	0.0	0.0	0.0
16	01/11/2012	11:49	0.0	0.0	0.0
17	01/11/2012	11:50	0.0	0.0	0.0
18	01/11/2012	11:51	0.0	0.0	0.0
19	01/11/2012	11:52	0.0	0.0	0.0
20	01/11/2012	11:53	0.0	0.0	0.0
21	01/11/2012	11:54	0.0	0.0	0.0
22	01/11/2012	11:55	0.0	0.0	0.0
23	01/11/2012	11:56	0.0	0.0	0.0
24	01/11/2012	11:57	0.0	0.0	0.0
25	01/11/2012	11:58	0.0	0.0	0.0
26	01/11/2012	11:59	0.0	0.0	0.0
27	01/11/2012	12:00	0.0	0.0	0.0
28	01/11/2012	12:01	0.0	0.0	0.0
29	01/11/2012	12:02	0.0	0.0	0.0
30	01/11/2012	12:03	0.0	0.0	0.0
31	01/11/2012	12:04	0.0	0.0	0.0
32	01/11/2012	12:05	0.0	0.0	0.0
33	01/11/2012	12:06	0.0	0.0	0.0
34	01/11/2012	12:07	0.0	0.0	0.0
35	01/11/2012	12:08	0.0	0.0	0.0
36	01/11/2012	12:09	0.0	0.0	0.0
37	01/11/2012	12:10	0.0	0.0	0.0
38	01/11/2012	12:11	0.0	0.0	0.0
39	01/11/2012	12:12	0.0	0.0	0.0
40	01/11/2012	12:13	0.0	0.0	0.0
41	01/11/2012	12:14	0.0	0.0	0.0
42	01/11/2012	12:15	0.0	0.0	0.0
43	01/11/2012	12:16	0.0	0.0	0.0
44	01/11/2012	12:17	0.0	0.0	0.0
45	01/11/2012	12:18	0.0	0.0	0.0
46	01/11/2012	12:19	0.0	0.0	0.0
47	01/11/2012	12:20	0.0	0.0	0.0
48	01/11/2012	12:21	0.0	0.0	0.0
49	01/11/2012	12:22	0.0	0.0	0.0
50	01/11/2012	12:23	0.0	0.0	0.0
51	01/11/2012	12:24	0.0	0.0	0.0
52	01/11/2012	12:25	0.0	0.0	0.0
53	01/11/2012	12:26	0.0	0.0	0.0
54	01/11/2012	12:27	0.0	0.0	0.0
55	01/11/2012	12:28	0.0	0.0	0.0
56	01/11/2012	12:29	0.0	0.0	0.0
57	01/11/2012	12:30	0.0	0.0	0.0
58	01/11/2012	12:31	0.0	0.0	0.0

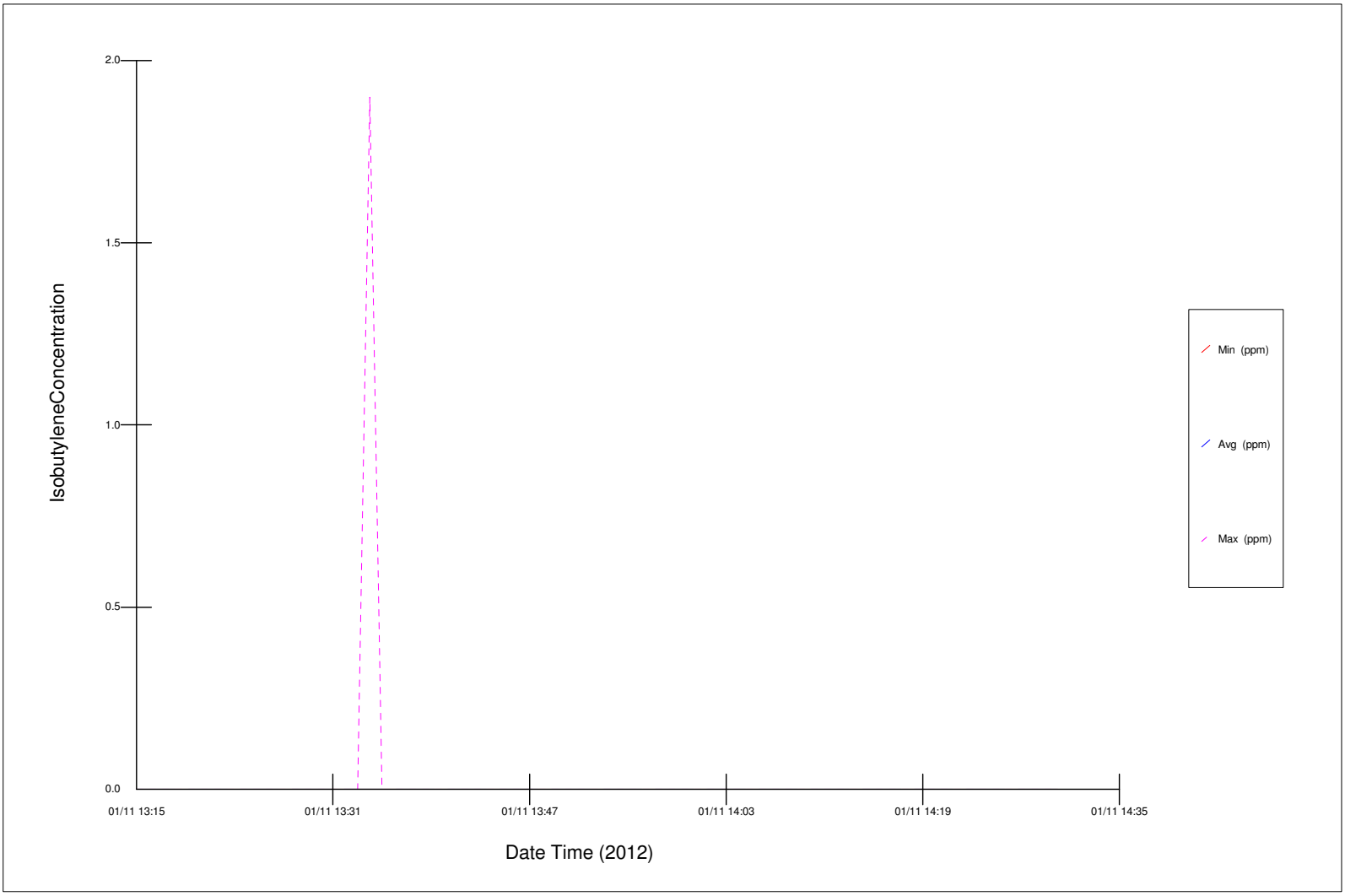
59	01/11/2012 12:32	0.0	0.0	0.0
60	01/11/2012 12:33	0.0	0.0	0.0
61	01/11/2012 12:34	0.0	0.0	0.0
62	01/11/2012 12:35	0.0	0.0	0.0
63	01/11/2012 12:36	0.0	0.0	0.0
64	01/11/2012 12:37	0.0	0.0	0.0
65	01/11/2012 12:38	0.0	0.0	0.0
66	01/11/2012 12:39	0.0	0.0	0.0
67	01/11/2012 12:40	0.0	0.0	0.0
68	01/11/2012 12:41	0.0	0.0	0.0
69	01/11/2012 12:42	0.0	0.0	0.0
70	01/11/2012 12:43	0.0	0.0	0.0
71	01/11/2012 12:44	0.0	0.0	0.0
72	01/11/2012 12:45	0.0	0.0	0.0
73	01/11/2012 12:46	0.0	0.0	0.0
74	01/11/2012 12:47	0.0	0.0	0.0
75	01/11/2012 12:48	0.0	0.0	0.0
76	01/11/2012 12:49	0.0	0.0	0.0
77	01/11/2012 12:50	0.0	0.0	0.0
78	01/11/2012 12:51	0.0	0.0	0.0
79	01/11/2012 12:52	0.0	0.0	0.0
80	01/11/2012 12:53	0.0	0.0	0.0
81	01/11/2012 12:54	0.0	0.0	0.0
82	01/11/2012 12:55	0.0	0.0	0.0
83	01/11/2012 12:56	0.0	0.0	0.0
84	01/11/2012 12:57	0.0	0.0	0.0
85	01/11/2012 12:58	0.0	0.0	0.0
86	01/11/2012 12:59	0.0	0.0	0.0
87	01/11/2012 13:00	0.0	0.0	0.0
88	01/11/2012 13:01	0.0	0.0	0.0
89	01/11/2012 13:02	0.0	0.0	0.0
90	01/11/2012 13:03	0.0	0.0	0.0
91	01/11/2012 13:04	0.0	0.0	0.0
92	01/11/2012 13:05	0.0	0.0	0.0
93	01/11/2012 13:06	0.0	0.0	0.0
94	01/11/2012 13:07	0.0	0.0	0.0
95	01/11/2012 13:08	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 11:24
01/16 11:31
01/16 11:38
01/16 11:45
01/16 11:52
01/16 11:59
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000043
Data Points: 32 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	11:24	0.0	0.0	0.0
2	01/16/2012	11:25	0.0	0.0	0.0
3	01/16/2012	11:26	0.0	0.0	0.0
4	01/16/2012	11:27	0.0	0.0	0.0
5	01/16/2012	11:28	0.0	0.0	0.0
6	01/16/2012	11:29	0.0	0.0	0.0
7	01/16/2012	11:30	0.0	0.0	0.0
8	01/16/2012	11:31	0.0	0.0	0.0
9	01/16/2012	11:32	0.0	0.0	0.0
10	01/16/2012	11:33	0.0	0.0	0.0
11	01/16/2012	11:34	0.0	0.0	0.0
12	01/16/2012	11:35	0.0	0.0	0.0
13	01/16/2012	11:36	0.0	0.0	0.0
14	01/16/2012	11:37	0.0	0.0	0.0
15	01/16/2012	11:38	0.0	0.0	0.0
16	01/16/2012	11:39	0.0	0.0	0.0
17	01/16/2012	11:40	0.0	0.0	0.0
18	01/16/2012	11:41	0.0	0.0	0.0
19	01/16/2012	11:42	0.0	0.0	0.0
20	01/16/2012	11:43	0.0	0.0	0.0
21	01/16/2012	11:44	0.0	0.0	0.0
22	01/16/2012	11:45	0.0	0.0	0.0
23	01/16/2012	11:46	0.0	0.0	0.0
24	01/16/2012	11:47	0.0	0.0	0.0
25	01/16/2012	11:48	0.0	0.0	0.0
26	01/16/2012	11:49	0.0	0.0	0.0
27	01/16/2012	11:50	0.0	0.0	0.0
28	01/16/2012	11:51	0.0	0.0	0.0
29	01/16/2012	11:52	0.0	0.0	0.0
30	01/16/2012	11:53	0.0	0.0	0.0
31	01/16/2012	11:54	0.0	0.0	0.0
32	01/16/2012	11:55	0.0	0.0	0.0

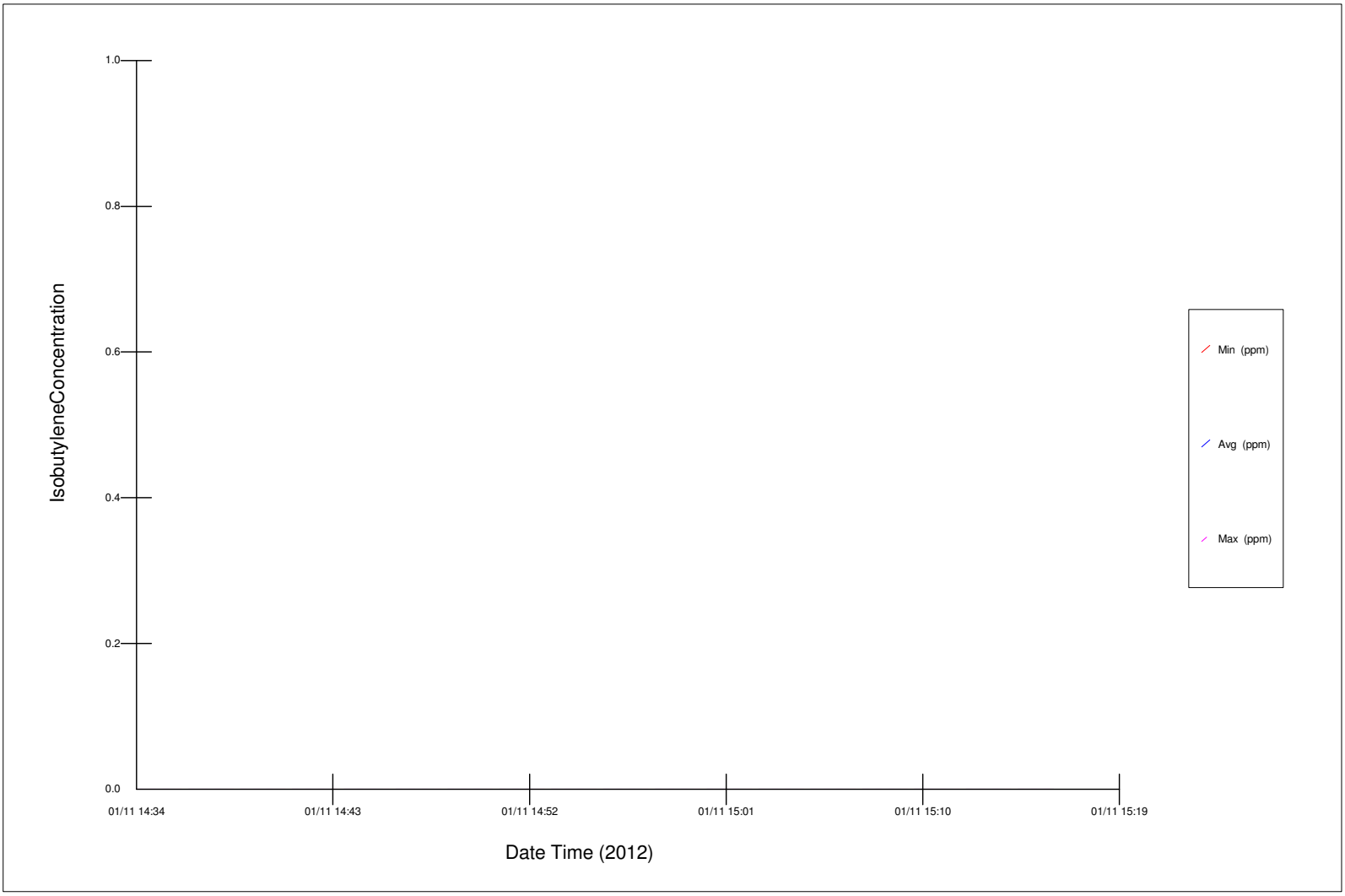

2.0
1.5
1.0
0.5
0.0
IsobutyleneConcentration
01/11 13:15
01/11 13:31
01/11 13:47
01/11 14:03
01/11 14:19
01/11 14:35
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000055
Data Points: 76 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	13:15	0.0	0.0	0.0
2	01/11/2012	13:16	0.0	0.0	0.0
3	01/11/2012	13:17	0.0	0.0	0.0
4	01/11/2012	13:18	0.0	0.0	0.0
5	01/11/2012	13:19	0.0	0.0	0.0
6	01/11/2012	13:20	0.0	0.0	0.0
7	01/11/2012	13:21	0.0	0.0	0.0
8	01/11/2012	13:22	0.0	0.0	0.0
9	01/11/2012	13:23	0.0	0.0	0.0
10	01/11/2012	13:24	0.0	0.0	0.0
11	01/11/2012	13:25	0.0	0.0	0.0
12	01/11/2012	13:26	0.0	0.0	0.0
13	01/11/2012	13:27	0.0	0.0	0.0
14	01/11/2012	13:28	0.0	0.0	0.0
15	01/11/2012	13:29	0.0	0.0	0.0
16	01/11/2012	13:30	0.0	0.0	0.0
17	01/11/2012	13:31	0.0	0.0	0.0
18	01/11/2012	13:32	0.0	0.0	0.0
19	01/11/2012	13:33	0.0	0.0	0.0
20	01/11/2012	13:34	0.0	0.0	1.9
21	01/11/2012	13:35	0.0	0.0	0.0
22	01/11/2012	13:36	0.0	0.0	0.0
23	01/11/2012	13:37	0.0	0.0	0.0
24	01/11/2012	13:38	0.0	0.0	0.0
25	01/11/2012	13:39	0.0	0.0	0.0
26	01/11/2012	13:40	0.0	0.0	0.0
27	01/11/2012	13:41	0.0	0.0	0.0
28	01/11/2012	13:42	0.0	0.0	0.0
29	01/11/2012	13:43	0.0	0.0	0.0
30	01/11/2012	13:44	0.0	0.0	0.0
31	01/11/2012	13:45	0.0	0.0	0.0
32	01/11/2012	13:46	0.0	0.0	0.0
33	01/11/2012	13:47	0.0	0.0	0.0
34	01/11/2012	13:48	0.0	0.0	0.0
35	01/11/2012	13:49	0.0	0.0	0.0
36	01/11/2012	13:50	0.0	0.0	0.0
37	01/11/2012	13:51	0.0	0.0	0.0
38	01/11/2012	13:52	0.0	0.0	0.0
39	01/11/2012	13:53	0.0	0.0	0.0
40	01/11/2012	13:54	0.0	0.0	0.0
41	01/11/2012	13:55	0.0	0.0	0.0
42	01/11/2012	13:56	0.0	0.0	0.0
43	01/11/2012	13:57	0.0	0.0	0.0
44	01/11/2012	13:58	0.0	0.0	0.0
45	01/11/2012	13:59	0.0	0.0	0.0
46	01/11/2012	14:00	0.0	0.0	0.0
47	01/11/2012	14:01	0.0	0.0	0.0
48	01/11/2012	14:02	0.0	0.0	0.0
49	01/11/2012	14:03	0.0	0.0	0.0
50	01/11/2012	14:04	0.0	0.0	0.0
51	01/11/2012	14:05	0.0	0.0	0.0
52	01/11/2012	14:06	0.0	0.0	0.0
53	01/11/2012	14:07	0.0	0.0	0.0
54	01/11/2012	14:08	0.0	0.0	0.0
55	01/11/2012	14:09	0.0	0.0	0.0
56	01/11/2012	14:10	0.0	0.0	0.0
57	01/11/2012	14:11	0.0	0.0	0.0
58	01/11/2012	14:12	0.0	0.0	0.0

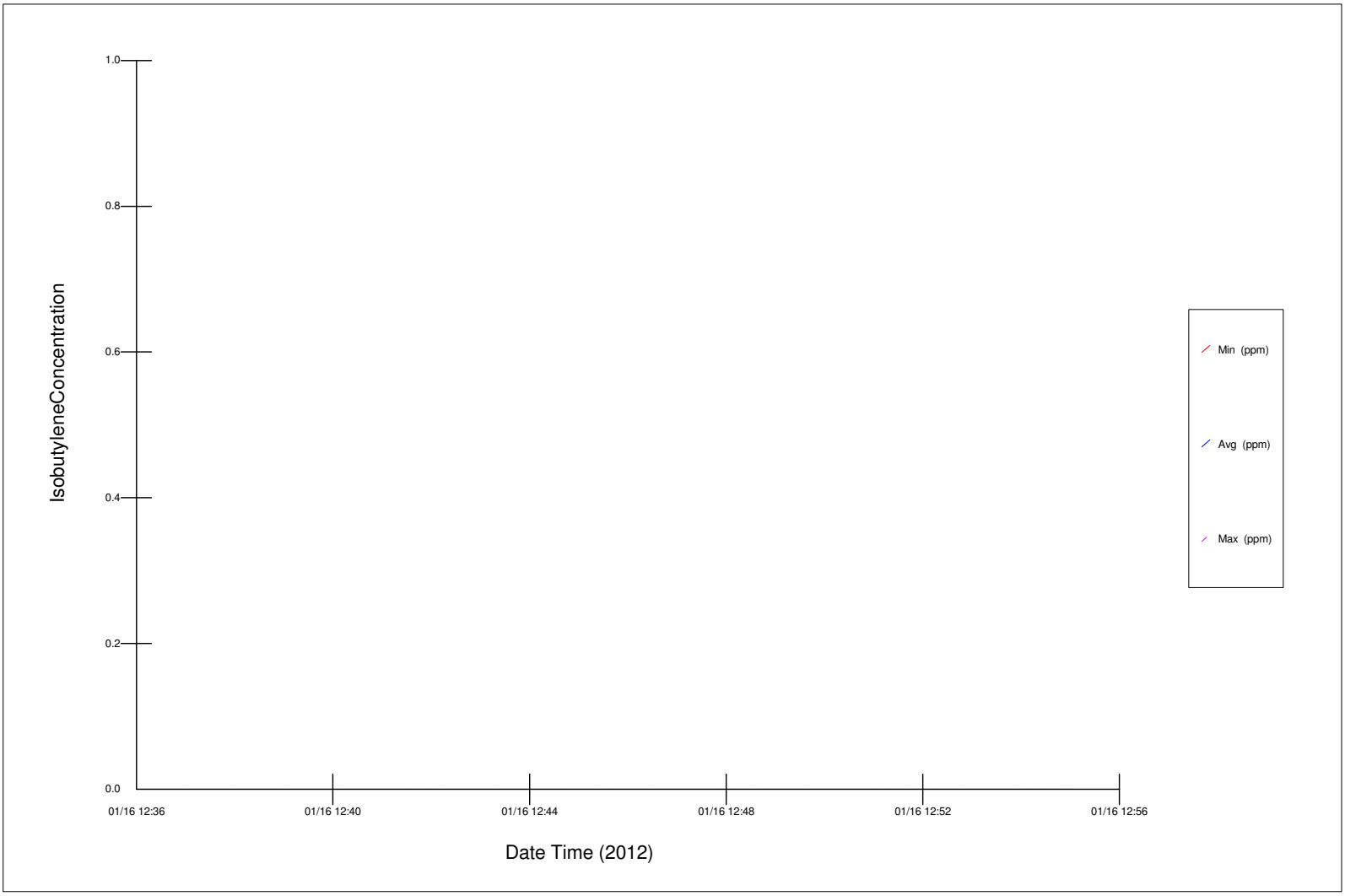
59	01/11/2012 14:13	0.0	0.0	0.0
60	01/11/2012 14:14	0.0	0.0	0.0
61	01/11/2012 14:15	0.0	0.0	0.0
62	01/11/2012 14:16	0.0	0.0	0.0
63	01/11/2012 14:17	0.0	0.0	0.0
64	01/11/2012 14:18	0.0	0.0	0.0
65	01/11/2012 14:19	0.0	0.0	0.0
66	01/11/2012 14:20	0.0	0.0	0.0
67	01/11/2012 14:21	0.0	0.0	0.0
68	01/11/2012 14:22	0.0	0.0	0.0
69	01/11/2012 14:23	0.0	0.0	0.0
70	01/11/2012 14:24	0.0	0.0	0.0
71	01/11/2012 14:25	0.0	0.0	0.0
72	01/11/2012 14:26	0.0	0.0	0.0
73	01/11/2012 14:27	0.0	0.0	0.0
74	01/11/2012 14:28	0.0	0.0	0.0
75	01/11/2012 14:29	0.0	0.0	0.0
76	01/11/2012 14:30	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/11 14:34
01/11 14:43
01/11 14:52
01/11 15:01
01/11 15:10
01/11 15:19
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000056
Data Points: 43 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

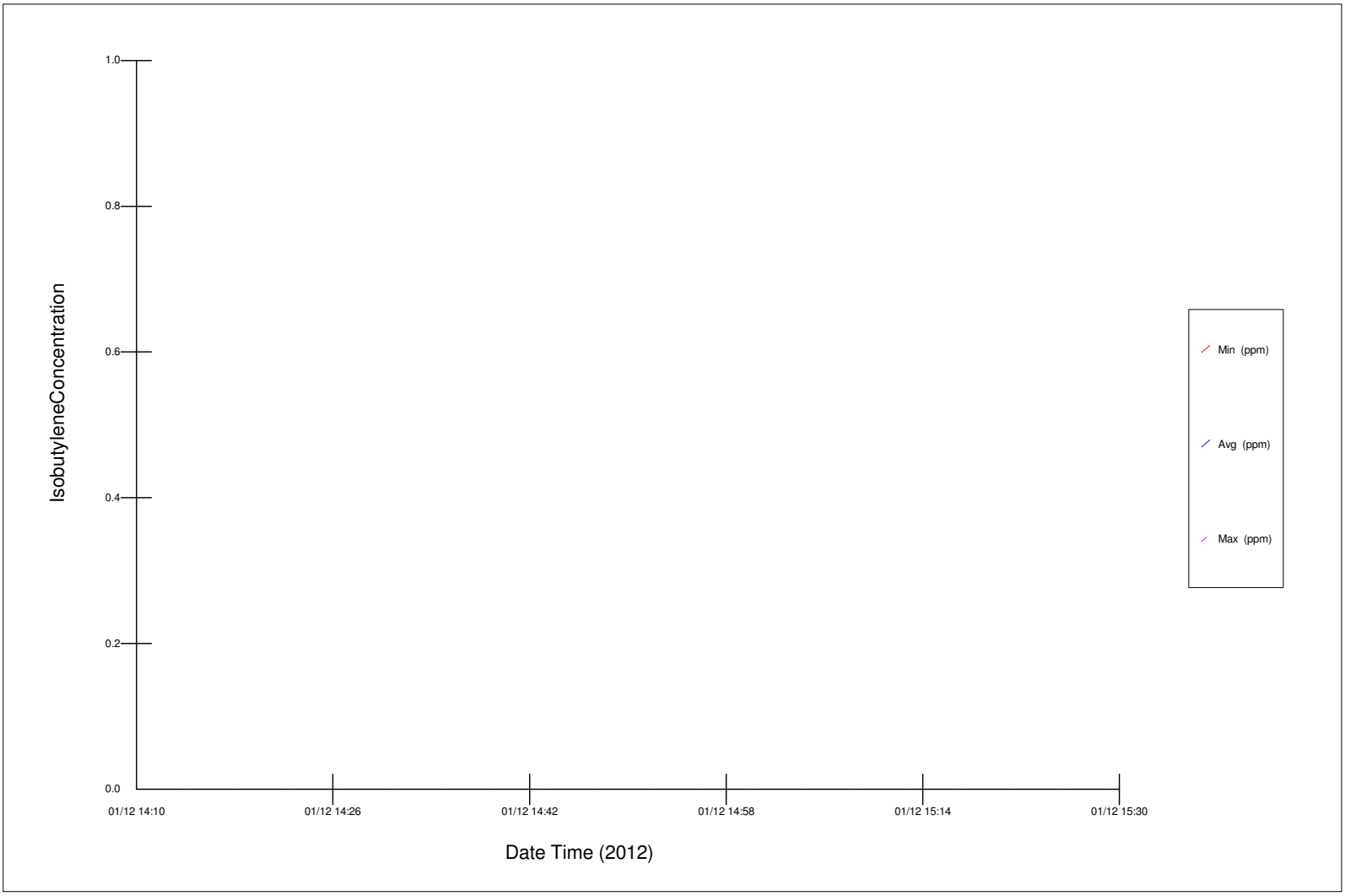
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/11/2012	14:34	0.0	0.0	0.0
2	01/11/2012	14:35	0.0	0.0	0.0
3	01/11/2012	14:36	0.0	0.0	0.0
4	01/11/2012	14:37	0.0	0.0	0.0
5	01/11/2012	14:38	0.0	0.0	0.0
6	01/11/2012	14:39	0.0	0.0	0.0
7	01/11/2012	14:40	0.0	0.0	0.0
8	01/11/2012	14:41	0.0	0.0	0.0
9	01/11/2012	14:42	0.0	0.0	0.0
10	01/11/2012	14:43	0.0	0.0	0.0
11	01/11/2012	14:44	0.0	0.0	0.0
12	01/11/2012	14:45	0.0	0.0	0.0
13	01/11/2012	14:46	0.0	0.0	0.0
14	01/11/2012	14:47	0.0	0.0	0.0
15	01/11/2012	14:48	0.0	0.0	0.0
16	01/11/2012	14:49	0.0	0.0	0.0
17	01/11/2012	14:50	0.0	0.0	0.0
18	01/11/2012	14:51	0.0	0.0	0.0
19	01/11/2012	14:52	0.0	0.0	0.0
20	01/11/2012	14:53	0.0	0.0	0.0
21	01/11/2012	14:54	0.0	0.0	0.0
22	01/11/2012	14:55	0.0	0.0	0.0
23	01/11/2012	14:56	0.0	0.0	0.0
24	01/11/2012	14:57	0.0	0.0	0.0
25	01/11/2012	14:58	0.0	0.0	0.0
26	01/11/2012	14:59	0.0	0.0	0.0
27	01/11/2012	15:00	0.0	0.0	0.0
28	01/11/2012	15:01	0.0	0.0	0.0
29	01/11/2012	15:02	0.0	0.0	0.0
30	01/11/2012	15:03	0.0	0.0	0.0
31	01/11/2012	15:04	0.0	0.0	0.0
32	01/11/2012	15:05	0.0	0.0	0.0
33	01/11/2012	15:06	0.0	0.0	0.0
34	01/11/2012	15:07	0.0	0.0	0.0
35	01/11/2012	15:08	0.0	0.0	0.0
36	01/11/2012	15:09	0.0	0.0	0.0
37	01/11/2012	15:10	0.0	0.0	0.0
38	01/11/2012	15:11	0.0	0.0	0.0
39	01/11/2012	15:12	0.0	0.0	0.0
40	01/11/2012	15:13	0.0	0.0	0.0
41	01/11/2012	15:14	0.0	0.0	0.0
42	01/11/2012	15:15	0.0	0.0	0.0
43	01/11/2012	15:16	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/16 12:36
01/16 12:40
01/16 12:44
01/16 12:48
01/16 12:52
01/16 12:56
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000044
Data Points: 20 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	12:36	0.0	0.0	0.0
2	01/16/2012	12:37	0.0	0.0	0.0
3	01/16/2012	12:38	0.0	0.0	0.0
4	01/16/2012	12:39	0.0	0.0	0.0
5	01/16/2012	12:40	0.0	0.0	0.0
6	01/16/2012	12:41	0.0	0.0	0.0
7	01/16/2012	12:42	0.0	0.0	0.0
8	01/16/2012	12:43	0.0	0.0	0.0
9	01/16/2012	12:44	0.0	0.0	0.0
10	01/16/2012	12:45	0.0	0.0	0.0
11	01/16/2012	12:46	0.0	0.0	0.0
12	01/16/2012	12:47	0.0	0.0	0.0
13	01/16/2012	12:48	0.0	0.0	0.0
14	01/16/2012	12:49	0.0	0.0	0.0
15	01/16/2012	12:50	0.0	0.0	0.0
16	01/16/2012	12:51	0.0	0.0	0.0
17	01/16/2012	12:52	0.0	0.0	0.0
18	01/16/2012	12:53	0.0	0.0	0.0
19	01/16/2012	12:54	0.0	0.0	0.0
20	01/16/2012	12:55	0.0	0.0	0.0

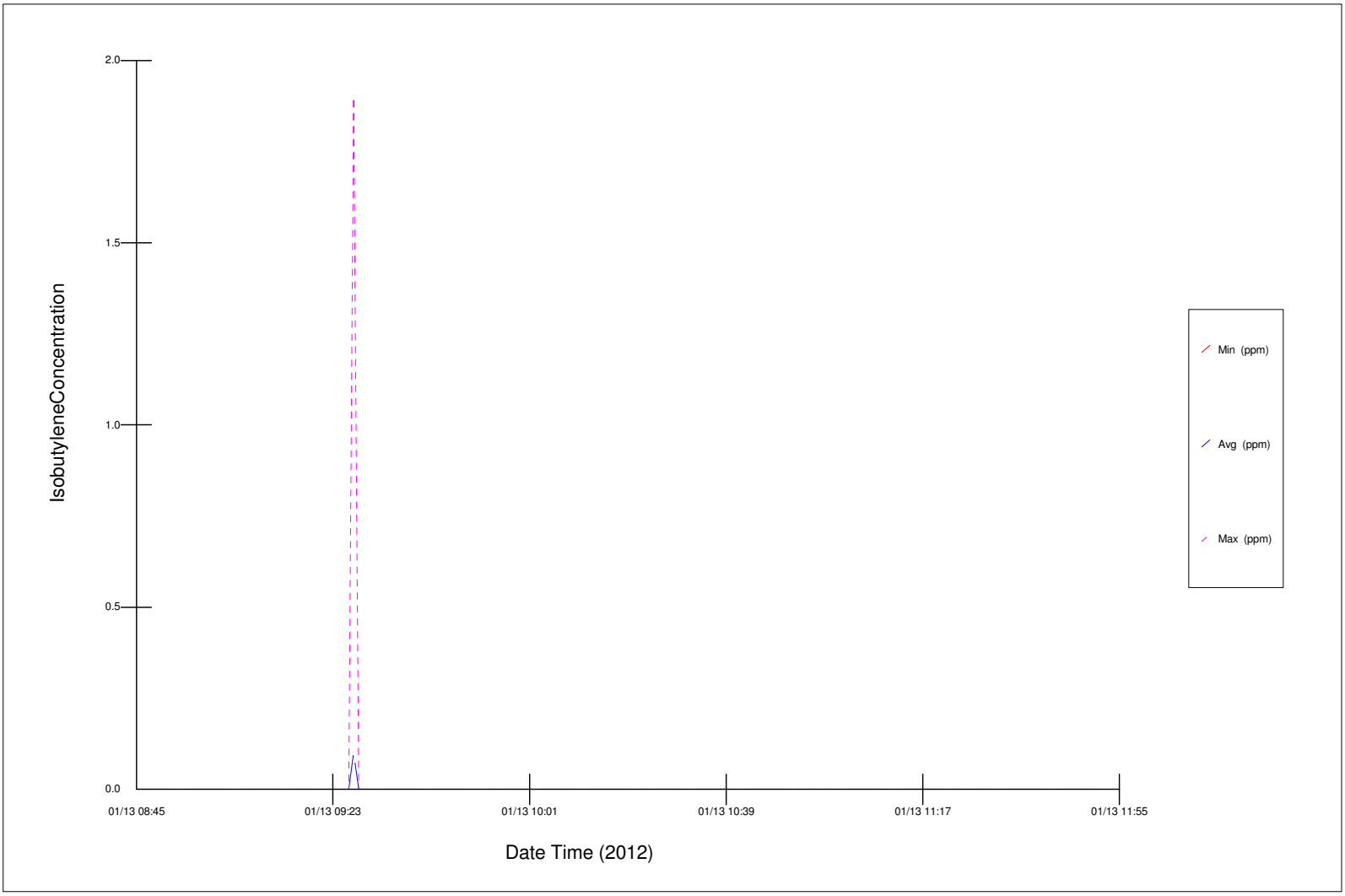

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/12 14:10
01/12 14:26
01/12 14:42
01/12 14:58
01/12 15:14
01/12 15:30
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000059
Data Points: 80 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/05/2012 15:46

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/12/2012	14:10	0.0	0.0	0.0
2	01/12/2012	14:11	0.0	0.0	0.0
3	01/12/2012	14:12	0.0	0.0	0.0
4	01/12/2012	14:13	0.0	0.0	0.0
5	01/12/2012	14:14	0.0	0.0	0.0
6	01/12/2012	14:15	0.0	0.0	0.0
7	01/12/2012	14:16	0.0	0.0	0.0
8	01/12/2012	14:17	0.0	0.0	0.0
9	01/12/2012	14:18	0.0	0.0	0.0
10	01/12/2012	14:19	0.0	0.0	0.0
11	01/12/2012	14:20	0.0	0.0	0.0
12	01/12/2012	14:21	0.0	0.0	0.0
13	01/12/2012	14:22	0.0	0.0	0.0
14	01/12/2012	14:23	0.0	0.0	0.0
15	01/12/2012	14:24	0.0	0.0	0.0
16	01/12/2012	14:25	0.0	0.0	0.0
17	01/12/2012	14:26	0.0	0.0	0.0
18	01/12/2012	14:27	0.0	0.0	0.0
19	01/12/2012	14:28	0.0	0.0	0.0
20	01/12/2012	14:29	0.0	0.0	0.0
21	01/12/2012	14:30	0.0	0.0	0.0
22	01/12/2012	14:31	0.0	0.0	0.0
23	01/12/2012	14:32	0.0	0.0	0.0
24	01/12/2012	14:33	0.0	0.0	0.0
25	01/12/2012	14:34	0.0	0.0	0.0
26	01/12/2012	14:35	0.0	0.0	0.0
27	01/12/2012	14:36	0.0	0.0	0.0
28	01/12/2012	14:37	0.0	0.0	0.0
29	01/12/2012	14:38	0.0	0.0	0.0
30	01/12/2012	14:39	0.0	0.0	0.0
31	01/12/2012	14:40	0.0	0.0	0.0
32	01/12/2012	14:41	0.0	0.0	0.0
33	01/12/2012	14:42	0.0	0.0	0.0
34	01/12/2012	14:43	0.0	0.0	0.0
35	01/12/2012	14:44	0.0	0.0	0.0
36	01/12/2012	14:45	0.0	0.0	0.0
37	01/12/2012	14:46	0.0	0.0	0.0
38	01/12/2012	14:47	0.0	0.0	0.0
39	01/12/2012	14:48	0.0	0.0	0.0
40	01/12/2012	14:49	0.0	0.0	0.0
41	01/12/2012	14:50	0.0	0.0	0.0
42	01/12/2012	14:51	0.0	0.0	0.0
43	01/12/2012	14:52	0.0	0.0	0.0
44	01/12/2012	14:53	0.0	0.0	0.0
45	01/12/2012	14:54	0.0	0.0	0.0
46	01/12/2012	14:55	0.0	0.0	0.0
47	01/12/2012	14:56	0.0	0.0	0.0
48	01/12/2012	14:57	0.0	0.0	0.0
49	01/12/2012	14:58	0.0	0.0	0.0
50	01/12/2012	14:59	0.0	0.0	0.0
51	01/12/2012	15:00	0.0	0.0	0.0
52	01/12/2012	15:01	0.0	0.0	0.0
53	01/12/2012	15:02	0.0	0.0	0.0
54	01/12/2012	15:03	0.0	0.0	0.0
55	01/12/2012	15:04	0.0	0.0	0.0
56	01/12/2012	15:05	0.0	0.0	0.0
57	01/12/2012	15:06	0.0	0.0	0.0
58	01/12/2012	15:07	0.0	0.0	0.0

59	01/12/2012 15:08	0.0	0.0	0.0
60	01/12/2012 15:09	0.0	0.0	0.0
61	01/12/2012 15:10	0.0	0.0	0.0
62	01/12/2012 15:11	0.0	0.0	0.0
63	01/12/2012 15:12	0.0	0.0	0.0
64	01/12/2012 15:13	0.0	0.0	0.0
65	01/12/2012 15:14	0.0	0.0	0.0
66	01/12/2012 15:15	0.0	0.0	0.0
67	01/12/2012 15:16	0.0	0.0	0.0
68	01/12/2012 15:17	0.0	0.0	0.0
69	01/12/2012 15:18	0.0	0.0	0.0
70	01/12/2012 15:19	0.0	0.0	0.0
71	01/12/2012 15:20	0.0	0.0	0.0
72	01/12/2012 15:21	0.0	0.0	0.0
73	01/12/2012 15:22	0.0	0.0	0.0
74	01/12/2012 15:23	0.0	0.0	0.0
75	01/12/2012 15:24	0.0	0.0	0.0
76	01/12/2012 15:25	0.0	0.0	0.0
77	01/12/2012 15:26	0.0	0.0	0.0
78	01/12/2012 15:27	0.0	0.0	0.0
79	01/12/2012 15:28	0.0	0.0	0.0
80	01/12/2012 15:29	0.0	0.0	0.0


2.0
1.5
1.0
0.5
0.0
IsobutyleneConcentration
01/13 08:45
01/13 09:23
01/13 10:01
01/13 10:39
01/13 11:17
01/13 11:55
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

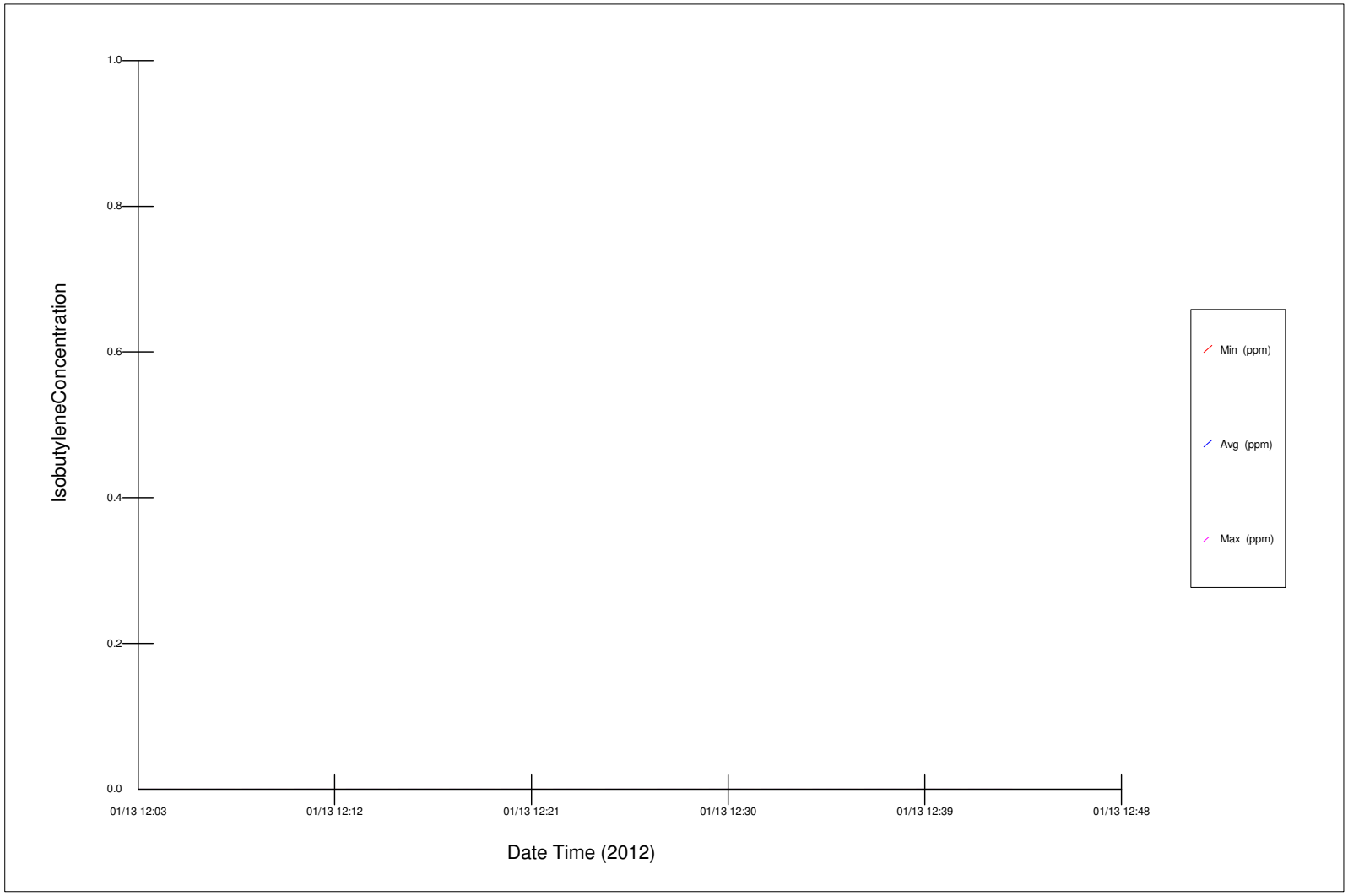
Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000061
Data Points: 189 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/13/2012 08:03

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	08:45	0.0	0.0	0.0
2	01/13/2012	08:46	0.0	0.0	0.0
3	01/13/2012	08:47	0.0	0.0	0.0
4	01/13/2012	08:48	0.0	0.0	0.0
5	01/13/2012	08:49	0.0	0.0	0.0
6	01/13/2012	08:50	0.0	0.0	0.0
7	01/13/2012	08:51	0.0	0.0	0.0
8	01/13/2012	08:52	0.0	0.0	0.0
9	01/13/2012	08:53	0.0	0.0	0.0
10	01/13/2012	08:54	0.0	0.0	0.0
11	01/13/2012	08:55	0.0	0.0	0.0
12	01/13/2012	08:56	0.0	0.0	0.0
13	01/13/2012	08:57	0.0	0.0	0.0
14	01/13/2012	08:58	0.0	0.0	0.0
15	01/13/2012	08:59	0.0	0.0	0.0
16	01/13/2012	09:00	0.0	0.0	0.0
17	01/13/2012	09:01	0.0	0.0	0.0
18	01/13/2012	09:02	0.0	0.0	0.0
19	01/13/2012	09:03	0.0	0.0	0.0
20	01/13/2012	09:04	0.0	0.0	0.0
21	01/13/2012	09:05	0.0	0.0	0.0
22	01/13/2012	09:06	0.0	0.0	0.0
23	01/13/2012	09:07	0.0	0.0	0.0
24	01/13/2012	09:08	0.0	0.0	0.0
25	01/13/2012	09:09	0.0	0.0	0.0
26	01/13/2012	09:10	0.0	0.0	0.0
27	01/13/2012	09:11	0.0	0.0	0.0
28	01/13/2012	09:12	0.0	0.0	0.0
29	01/13/2012	09:13	0.0	0.0	0.0
30	01/13/2012	09:14	0.0	0.0	0.0
31	01/13/2012	09:15	0.0	0.0	0.0
32	01/13/2012	09:16	0.0	0.0	0.0
33	01/13/2012	09:17	0.0	0.0	0.0
34	01/13/2012	09:18	0.0	0.0	0.0
35	01/13/2012	09:19	0.0	0.0	0.0
36	01/13/2012	09:20	0.0	0.0	0.0
37	01/13/2012	09:21	0.0	0.0	0.0
38	01/13/2012	09:22	0.0	0.0	0.0
39	01/13/2012	09:23	0.0	0.0	0.0
40	01/13/2012	09:24	0.0	0.0	0.0
41	01/13/2012	09:25	0.0	0.0	0.0
42	01/13/2012	09:26	0.0	0.0	0.0
43	01/13/2012	09:27	0.0	0.1	1.9
44	01/13/2012	09:28	0.0	0.0	0.0
45	01/13/2012	09:29	0.0	0.0	0.0
46	01/13/2012	09:30	0.0	0.0	0.0
47	01/13/2012	09:31	0.0	0.0	0.0
48	01/13/2012	09:32	0.0	0.0	0.0
49	01/13/2012	09:33	0.0	0.0	0.0
50	01/13/2012	09:34	0.0	0.0	0.0
51	01/13/2012	09:35	0.0	0.0	0.0
52	01/13/2012	09:36	0.0	0.0	0.0
53	01/13/2012	09:37	0.0	0.0	0.0
54	01/13/2012	09:38	0.0	0.0	0.0
55	01/13/2012	09:39	0.0	0.0	0.0
56	01/13/2012	09:40	0.0	0.0	0.0
57	01/13/2012	09:41	0.0	0.0	0.0
58	01/13/2012	09:42	0.0	0.0	0.0

59	01/13/2012 09:43	0.0	0.0	0.0
60	01/13/2012 09:44	0.0	0.0	0.0
61	01/13/2012 09:45	0.0	0.0	0.0
62	01/13/2012 09:46	0.0	0.0	0.0
63	01/13/2012 09:47	0.0	0.0	0.0
64	01/13/2012 09:48	0.0	0.0	0.0
65	01/13/2012 09:49	0.0	0.0	0.0
66	01/13/2012 09:50	0.0	0.0	0.0
67	01/13/2012 09:51	0.0	0.0	0.0
68	01/13/2012 09:52	0.0	0.0	0.0
69	01/13/2012 09:53	0.0	0.0	0.0
70	01/13/2012 09:54	0.0	0.0	0.0
71	01/13/2012 09:55	0.0	0.0	0.0
72	01/13/2012 09:56	0.0	0.0	0.0
73	01/13/2012 09:57	0.0	0.0	0.0
74	01/13/2012 09:58	0.0	0.0	0.0
75	01/13/2012 09:59	0.0	0.0	0.0
76	01/13/2012 10:00	0.0	0.0	0.0
77	01/13/2012 10:01	0.0	0.0	0.0
78	01/13/2012 10:02	0.0	0.0	0.0
79	01/13/2012 10:03	0.0	0.0	0.0
80	01/13/2012 10:04	0.0	0.0	0.0
81	01/13/2012 10:05	0.0	0.0	0.0
82	01/13/2012 10:06	0.0	0.0	0.0
83	01/13/2012 10:07	0.0	0.0	0.0
84	01/13/2012 10:08	0.0	0.0	0.0
85	01/13/2012 10:09	0.0	0.0	0.0
86	01/13/2012 10:10	0.0	0.0	0.0
87	01/13/2012 10:11	0.0	0.0	0.0
88	01/13/2012 10:12	0.0	0.0	0.0
89	01/13/2012 10:13	0.0	0.0	0.0
90	01/13/2012 10:14	0.0	0.0	0.0
91	01/13/2012 10:15	0.0	0.0	0.0
92	01/13/2012 10:16	0.0	0.0	0.0
93	01/13/2012 10:17	0.0	0.0	0.0
94	01/13/2012 10:18	0.0	0.0	0.0
95	01/13/2012 10:19	0.0	0.0	0.0
96	01/13/2012 10:20	0.0	0.0	0.0
97	01/13/2012 10:21	0.0	0.0	0.0
98	01/13/2012 10:22	0.0	0.0	0.0
99	01/13/2012 10:23	0.0	0.0	0.0
100	01/13/2012 10:24	0.0	0.0	0.0
101	01/13/2012 10:25	0.0	0.0	0.0
102	01/13/2012 10:26	0.0	0.0	0.0
103	01/13/2012 10:27	0.0	0.0	0.0
104	01/13/2012 10:28	0.0	0.0	0.0
105	01/13/2012 10:29	0.0	0.0	0.0
106	01/13/2012 10:30	0.0	0.0	0.0
107	01/13/2012 10:31	0.0	0.0	0.0
108	01/13/2012 10:32	0.0	0.0	0.0
109	01/13/2012 10:33	0.0	0.0	0.0
110	01/13/2012 10:34	0.0	0.0	0.0
111	01/13/2012 10:35	0.0	0.0	0.0
112	01/13/2012 10:36	0.0	0.0	0.0
113	01/13/2012 10:37	0.0	0.0	0.0
114	01/13/2012 10:38	0.0	0.0	0.0
115	01/13/2012 10:39	0.0	0.0	0.0
116	01/13/2012 10:40	0.0	0.0	0.0
117	01/13/2012 10:41	0.0	0.0	0.0
118	01/13/2012 10:42	0.0	0.0	0.0
119	01/13/2012 10:43	0.0	0.0	0.0
120	01/13/2012 10:44	0.0	0.0	0.0
121	01/13/2012 10:45	0.0	0.0	0.0
122	01/13/2012 10:46	0.0	0.0	0.0
123	01/13/2012 10:47	0.0	0.0	0.0
124	01/13/2012 10:48	0.0	0.0	0.0
125	01/13/2012 10:49	0.0	0.0	0.0
126	01/13/2012 10:50	0.0	0.0	0.0
127	01/13/2012 10:51	0.0	0.0	0.0

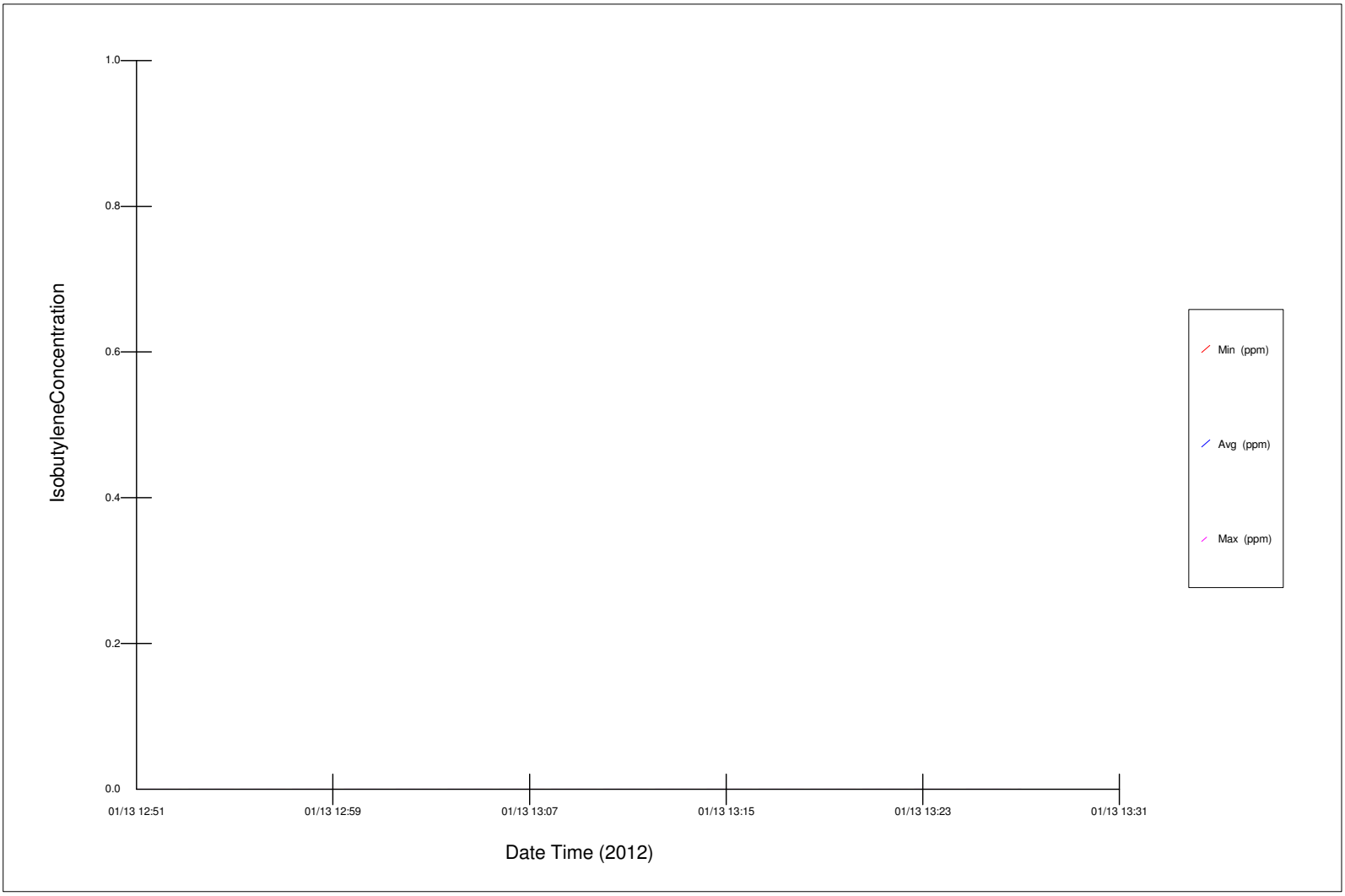
128	01/13/2012 10:52	0.0	0.0	0.0
129	01/13/2012 10:53	0.0	0.0	0.0
130	01/13/2012 10:54	0.0	0.0	0.0
131	01/13/2012 10:55	0.0	0.0	0.0
132	01/13/2012 10:56	0.0	0.0	0.0
133	01/13/2012 10:57	0.0	0.0	0.0
134	01/13/2012 10:58	0.0	0.0	0.0
135	01/13/2012 10:59	0.0	0.0	0.0
136	01/13/2012 11:00	0.0	0.0	0.0
137	01/13/2012 11:01	0.0	0.0	0.0
138	01/13/2012 11:02	0.0	0.0	0.0
139	01/13/2012 11:03	0.0	0.0	0.0
140	01/13/2012 11:04	0.0	0.0	0.0
141	01/13/2012 11:05	0.0	0.0	0.0
142	01/13/2012 11:06	0.0	0.0	0.0
143	01/13/2012 11:07	0.0	0.0	0.0
144	01/13/2012 11:08	0.0	0.0	0.0
145	01/13/2012 11:09	0.0	0.0	0.0
146	01/13/2012 11:10	0.0	0.0	0.0
147	01/13/2012 11:11	0.0	0.0	0.0
148	01/13/2012 11:12	0.0	0.0	0.0
149	01/13/2012 11:13	0.0	0.0	0.0
150	01/13/2012 11:14	0.0	0.0	0.0
151	01/13/2012 11:15	0.0	0.0	0.0
152	01/13/2012 11:16	0.0	0.0	0.0
153	01/13/2012 11:17	0.0	0.0	0.0
154	01/13/2012 11:18	0.0	0.0	0.0
155	01/13/2012 11:19	0.0	0.0	0.0
156	01/13/2012 11:20	0.0	0.0	0.0
157	01/13/2012 11:21	0.0	0.0	0.0
158	01/13/2012 11:22	0.0	0.0	0.0
159	01/13/2012 11:23	0.0	0.0	0.0
160	01/13/2012 11:24	0.0	0.0	0.0
161	01/13/2012 11:25	0.0	0.0	0.0
162	01/13/2012 11:26	0.0	0.0	0.0
163	01/13/2012 11:27	0.0	0.0	0.0
164	01/13/2012 11:28	0.0	0.0	0.0
165	01/13/2012 11:29	0.0	0.0	0.0
166	01/13/2012 11:30	0.0	0.0	0.0
167	01/13/2012 11:31	0.0	0.0	0.0
168	01/13/2012 11:32	0.0	0.0	0.0
169	01/13/2012 11:33	0.0	0.0	0.0
170	01/13/2012 11:34	0.0	0.0	0.0
171	01/13/2012 11:35	0.0	0.0	0.0
172	01/13/2012 11:36	0.0	0.0	0.0
173	01/13/2012 11:37	0.0	0.0	0.0
174	01/13/2012 11:38	0.0	0.0	0.0
175	01/13/2012 11:39	0.0	0.0	0.0
176	01/13/2012 11:40	0.0	0.0	0.0
177	01/13/2012 11:41	0.0	0.0	0.0
178	01/13/2012 11:42	0.0	0.0	0.0
179	01/13/2012 11:43	0.0	0.0	0.0
180	01/13/2012 11:44	0.0	0.0	0.0
181	01/13/2012 11:45	0.0	0.0	0.0
182	01/13/2012 11:46	0.0	0.0	0.0
183	01/13/2012 11:47	0.0	0.0	0.0
184	01/13/2012 11:48	0.0	0.0	0.0
185	01/13/2012 11:49	0.0	0.0	0.0
186	01/13/2012 11:50	0.0	0.0	0.0
187	01/13/2012 11:51	0.0	0.0	0.0
188	01/13/2012 11:52	0.0	0.0	0.0
189	01/13/2012 11:53	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/13 12:03
01/13 12:12
01/13 12:21
01/13 12:30
01/13 12:39
01/13 12:48
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000063
Data Points: 41 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/13/2012 08:03

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

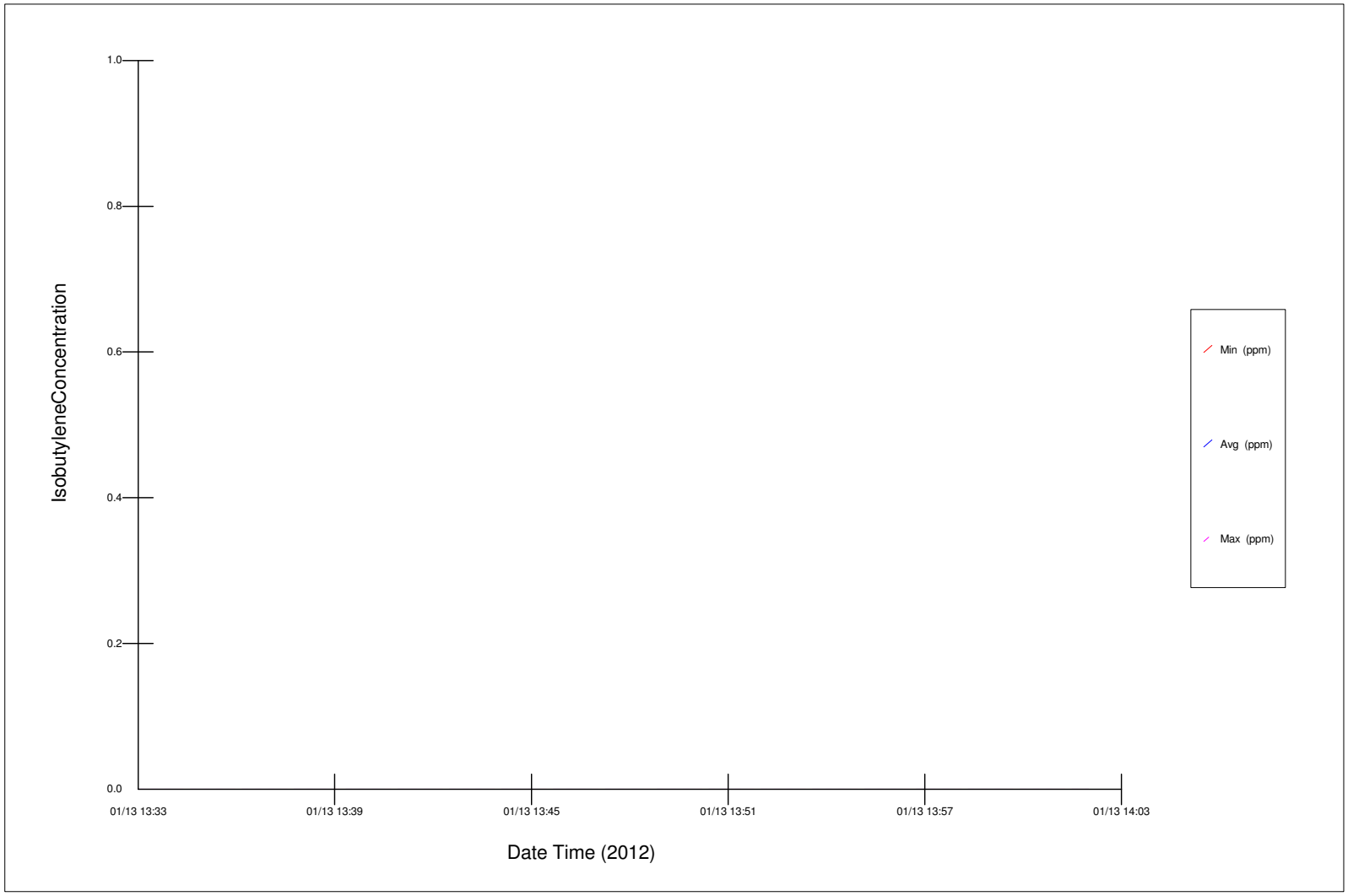
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	12:03	0.0	0.0	0.0
2	01/13/2012	12:04	0.0	0.0	0.0
3	01/13/2012	12:05	0.0	0.0	0.0
4	01/13/2012	12:06	0.0	0.0	0.0
5	01/13/2012	12:07	0.0	0.0	0.0
6	01/13/2012	12:08	0.0	0.0	0.0
7	01/13/2012	12:09	0.0	0.0	0.0
8	01/13/2012	12:10	0.0	0.0	0.0
9	01/13/2012	12:11	0.0	0.0	0.0
10	01/13/2012	12:12	0.0	0.0	0.0
11	01/13/2012	12:13	0.0	0.0	0.0
12	01/13/2012	12:14	0.0	0.0	0.0
13	01/13/2012	12:15	0.0	0.0	0.0
14	01/13/2012	12:16	0.0	0.0	0.0
15	01/13/2012	12:17	0.0	0.0	0.0
16	01/13/2012	12:18	0.0	0.0	0.0
17	01/13/2012	12:19	0.0	0.0	0.0
18	01/13/2012	12:20	0.0	0.0	0.0
19	01/13/2012	12:21	0.0	0.0	0.0
20	01/13/2012	12:22	0.0	0.0	0.0
21	01/13/2012	12:23	0.0	0.0	0.0
22	01/13/2012	12:24	0.0	0.0	0.0
23	01/13/2012	12:25	0.0	0.0	0.0
24	01/13/2012	12:26	0.0	0.0	0.0
25	01/13/2012	12:27	0.0	0.0	0.0
26	01/13/2012	12:28	0.0	0.0	0.0
27	01/13/2012	12:29	0.0	0.0	0.0
28	01/13/2012	12:30	0.0	0.0	0.0
29	01/13/2012	12:31	0.0	0.0	0.0
30	01/13/2012	12:32	0.0	0.0	0.0
31	01/13/2012	12:33	0.0	0.0	0.0
32	01/13/2012	12:34	0.0	0.0	0.0
33	01/13/2012	12:35	0.0	0.0	0.0
34	01/13/2012	12:36	0.0	0.0	0.0
35	01/13/2012	12:37	0.0	0.0	0.0
36	01/13/2012	12:38	0.0	0.0	0.0
37	01/13/2012	12:39	0.0	0.0	0.0
38	01/13/2012	12:40	0.0	0.0	0.0
39	01/13/2012	12:41	0.0	0.0	0.0
40	01/13/2012	12:42	0.0	0.0	0.0
41	01/13/2012	12:43	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/13 12:51
01/13 12:59
01/13 13:07
01/13 13:15
01/13 13:23
01/13 13:31
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000064
Data Points: 37 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/13/2012 08:03

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

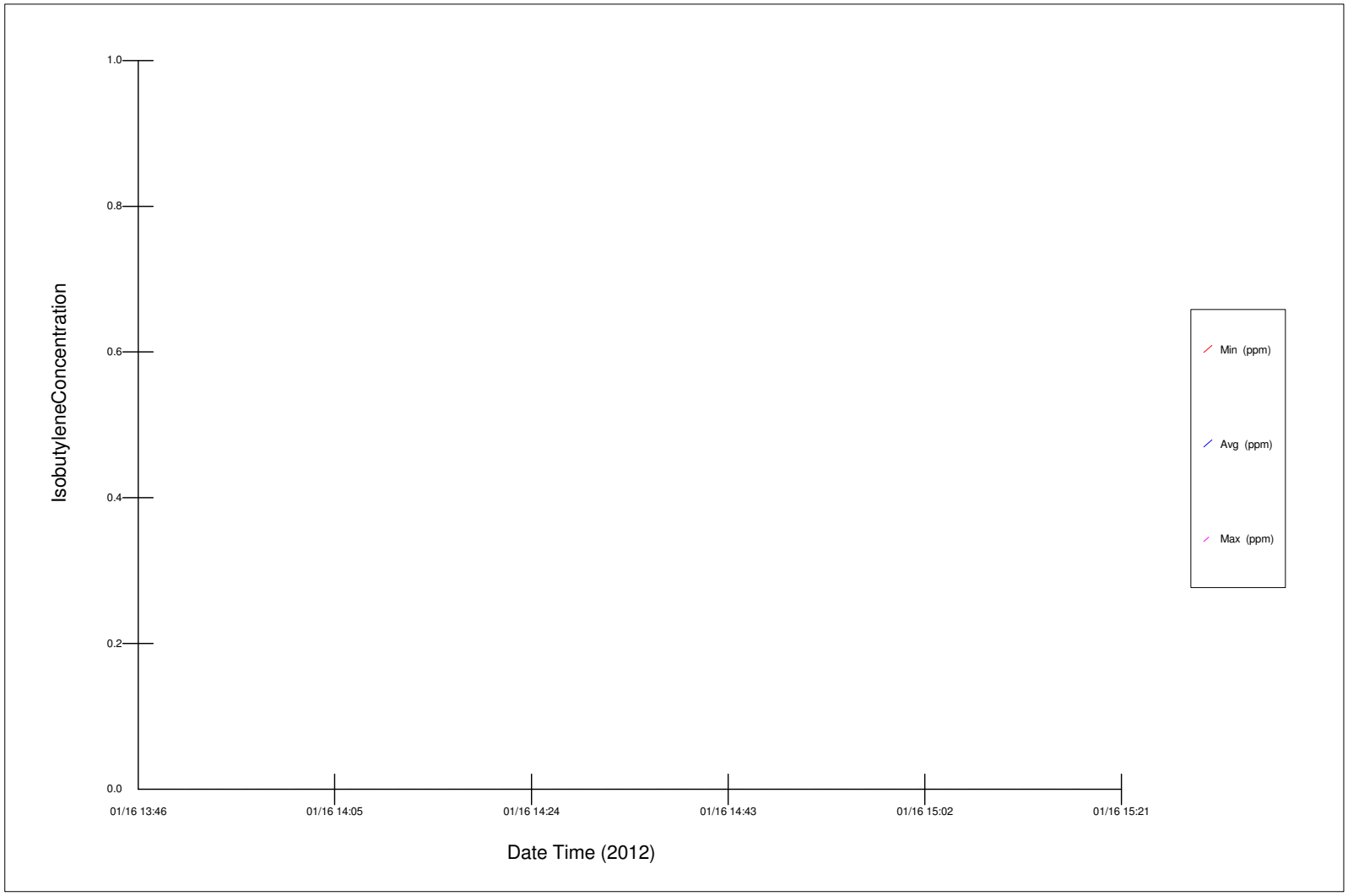
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	12:51	0.0	0.0	0.0
2	01/13/2012	12:52	0.0	0.0	0.0
3	01/13/2012	12:53	0.0	0.0	0.0
4	01/13/2012	12:54	0.0	0.0	0.0
5	01/13/2012	12:55	0.0	0.0	0.0
6	01/13/2012	12:56	0.0	0.0	0.0
7	01/13/2012	12:57	0.0	0.0	0.0
8	01/13/2012	12:58	0.0	0.0	0.0
9	01/13/2012	12:59	0.0	0.0	0.0
10	01/13/2012	13:00	0.0	0.0	0.0
11	01/13/2012	13:01	0.0	0.0	0.0
12	01/13/2012	13:02	0.0	0.0	0.0
13	01/13/2012	13:03	0.0	0.0	0.0
14	01/13/2012	13:04	0.0	0.0	0.0
15	01/13/2012	13:05	0.0	0.0	0.0
16	01/13/2012	13:06	0.0	0.0	0.0
17	01/13/2012	13:07	0.0	0.0	0.0
18	01/13/2012	13:08	0.0	0.0	0.0
19	01/13/2012	13:09	0.0	0.0	0.0
20	01/13/2012	13:10	0.0	0.0	0.0
21	01/13/2012	13:11	0.0	0.0	0.0
22	01/13/2012	13:12	0.0	0.0	0.0
23	01/13/2012	13:13	0.0	0.0	0.0
24	01/13/2012	13:14	0.0	0.0	0.0
25	01/13/2012	13:15	0.0	0.0	0.0
26	01/13/2012	13:16	0.0	0.0	0.0
27	01/13/2012	13:17	0.0	0.0	0.0
28	01/13/2012	13:18	0.0	0.0	0.0
29	01/13/2012	13:19	0.0	0.0	0.0
30	01/13/2012	13:20	0.0	0.0	0.0
31	01/13/2012	13:21	0.0	0.0	0.0
32	01/13/2012	13:22	0.0	0.0	0.0
33	01/13/2012	13:23	0.0	0.0	0.0
34	01/13/2012	13:24	0.0	0.0	0.0
35	01/13/2012	13:25	0.0	0.0	0.0
36	01/13/2012	13:26	0.0	0.0	0.0
37	01/13/2012	13:27	0.0	0.0	0.0


IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/13 13:33
01/13 13:39
01/13 13:45
01/13 13:51
01/13 13:57
01/13 14:03
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 013499
User ID: 00000001 Site ID: 00000065
Data Points: 30 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/13/2012 08:03

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	25.0	25.0	25.0
Low Alarm Levels:	5.0	5.0	5.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/13/2012	13:33	0.0	0.0	0.0
2	01/13/2012	13:34	0.0	0.0	0.0
3	01/13/2012	13:35	0.0	0.0	0.0
4	01/13/2012	13:36	0.0	0.0	0.0
5	01/13/2012	13:37	0.0	0.0	0.0
6	01/13/2012	13:38	0.0	0.0	0.0
7	01/13/2012	13:39	0.0	0.0	0.0
8	01/13/2012	13:40	0.0	0.0	0.0
9	01/13/2012	13:41	0.0	0.0	0.0
10	01/13/2012	13:42	0.0	0.0	0.0
11	01/13/2012	13:43	0.0	0.0	0.0
12	01/13/2012	13:44	0.0	0.0	0.0
13	01/13/2012	13:45	0.0	0.0	0.0
14	01/13/2012	13:46	0.0	0.0	0.0
15	01/13/2012	13:47	0.0	0.0	0.0
16	01/13/2012	13:48	0.0	0.0	0.0
17	01/13/2012	13:49	0.0	0.0	0.0
18	01/13/2012	13:50	0.0	0.0	0.0
19	01/13/2012	13:51	0.0	0.0	0.0
20	01/13/2012	13:52	0.0	0.0	0.0
21	01/13/2012	13:53	0.0	0.0	0.0
22	01/13/2012	13:54	0.0	0.0	0.0
23	01/13/2012	13:55	0.0	0.0	0.0
24	01/13/2012	13:56	0.0	0.0	0.0
25	01/13/2012	13:57	0.0	0.0	0.0
26	01/13/2012	13:58	0.0	0.0	0.0
27	01/13/2012	13:59	0.0	0.0	0.0
28	01/13/2012	14:00	0.0	0.0	0.0
29	01/13/2012	14:01	0.0	0.0	0.0
30	01/13/2012	14:02	0.0	0.0	0.0

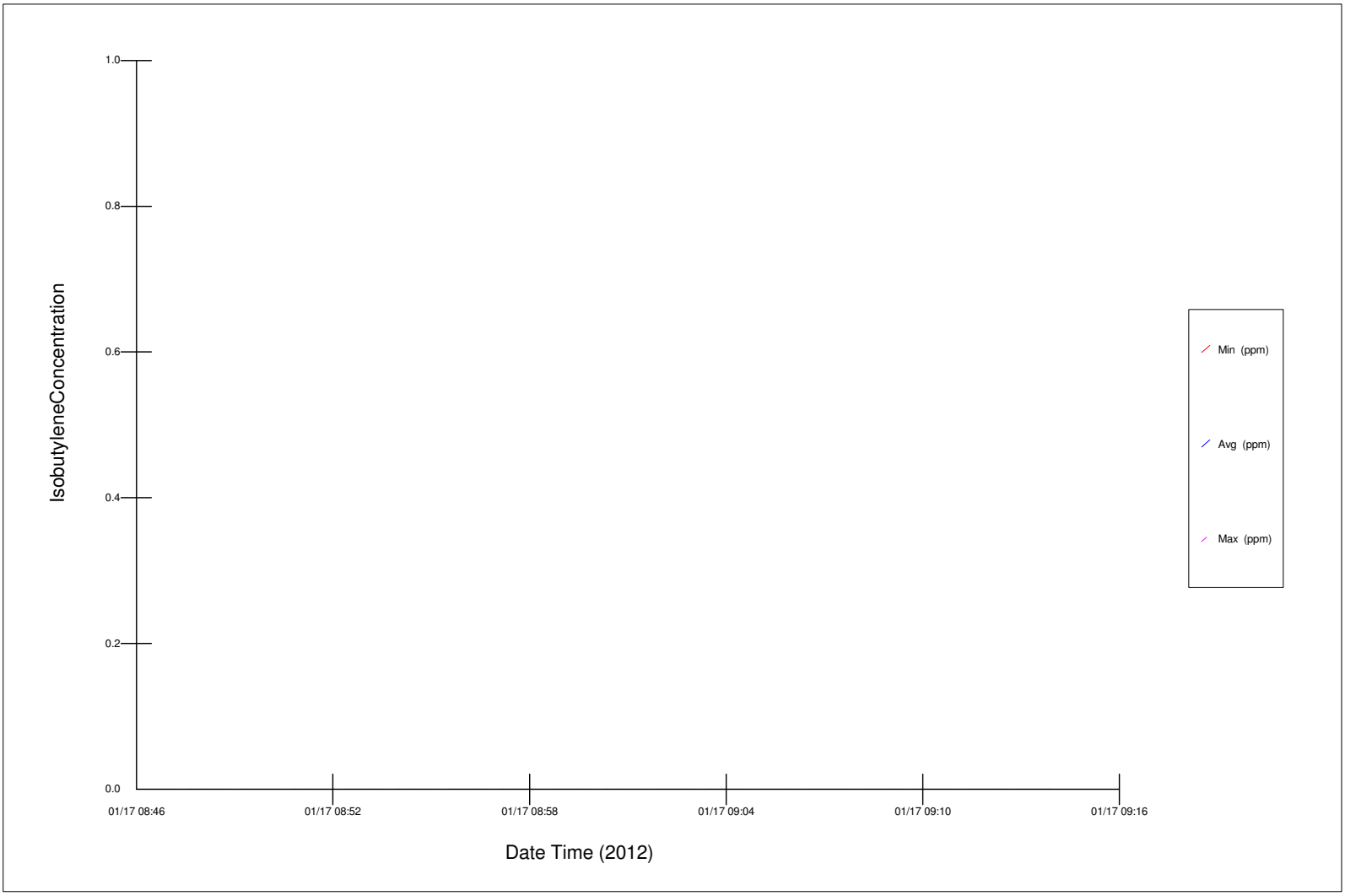

1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 13:46
01/16 14:05
01/16 14:24
01/16 14:43
01/16 15:02
01/16 15:21
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000045
Data Points: 92 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	13:46	0.0	0.0	0.0
2	01/16/2012	13:47	0.0	0.0	0.0
3	01/16/2012	13:48	0.0	0.0	0.0
4	01/16/2012	13:49	0.0	0.0	0.0
5	01/16/2012	13:50	0.0	0.0	0.0
6	01/16/2012	13:51	0.0	0.0	0.0
7	01/16/2012	13:52	0.0	0.0	0.0
8	01/16/2012	13:53	0.0	0.0	0.0
9	01/16/2012	13:54	0.0	0.0	0.0
10	01/16/2012	13:55	0.0	0.0	0.0
11	01/16/2012	13:56	0.0	0.0	0.0
12	01/16/2012	13:57	0.0	0.0	0.0
13	01/16/2012	13:58	0.0	0.0	0.0
14	01/16/2012	13:59	0.0	0.0	0.0
15	01/16/2012	14:00	0.0	0.0	0.0
16	01/16/2012	14:01	0.0	0.0	0.0
17	01/16/2012	14:02	0.0	0.0	0.0
18	01/16/2012	14:03	0.0	0.0	0.0
19	01/16/2012	14:04	0.0	0.0	0.0
20	01/16/2012	14:05	0.0	0.0	0.0
21	01/16/2012	14:06	0.0	0.0	0.0
22	01/16/2012	14:07	0.0	0.0	0.0
23	01/16/2012	14:08	0.0	0.0	0.0
24	01/16/2012	14:09	0.0	0.0	0.0
25	01/16/2012	14:10	0.0	0.0	0.0
26	01/16/2012	14:11	0.0	0.0	0.0
27	01/16/2012	14:12	0.0	0.0	0.0
28	01/16/2012	14:13	0.0	0.0	0.0
29	01/16/2012	14:14	0.0	0.0	0.0
30	01/16/2012	14:15	0.0	0.0	0.0
31	01/16/2012	14:16	0.0	0.0	0.0
32	01/16/2012	14:17	0.0	0.0	0.0
33	01/16/2012	14:18	0.0	0.0	0.0
34	01/16/2012	14:19	0.0	0.0	0.0
35	01/16/2012	14:20	0.0	0.0	0.0
36	01/16/2012	14:21	0.0	0.0	0.0
37	01/16/2012	14:22	0.0	0.0	0.0
38	01/16/2012	14:23	0.0	0.0	0.0
39	01/16/2012	14:24	0.0	0.0	0.0
40	01/16/2012	14:25	0.0	0.0	0.0
41	01/16/2012	14:26	0.0	0.0	0.0
42	01/16/2012	14:27	0.0	0.0	0.0
43	01/16/2012	14:28	0.0	0.0	0.0
44	01/16/2012	14:29	0.0	0.0	0.0
45	01/16/2012	14:30	0.0	0.0	0.0
46	01/16/2012	14:31	0.0	0.0	0.0
47	01/16/2012	14:32	0.0	0.0	0.0
48	01/16/2012	14:33	0.0	0.0	0.0
49	01/16/2012	14:34	0.0	0.0	0.0
50	01/16/2012	14:35	0.0	0.0	0.0
51	01/16/2012	14:36	0.0	0.0	0.0
52	01/16/2012	14:37	0.0	0.0	0.0
53	01/16/2012	14:38	0.0	0.0	0.0
54	01/16/2012	14:39	0.0	0.0	0.0
55	01/16/2012	14:40	0.0	0.0	0.0
56	01/16/2012	14:41	0.0	0.0	0.0
57	01/16/2012	14:42	0.0	0.0	0.0
58	01/16/2012	14:43	0.0	0.0	0.0

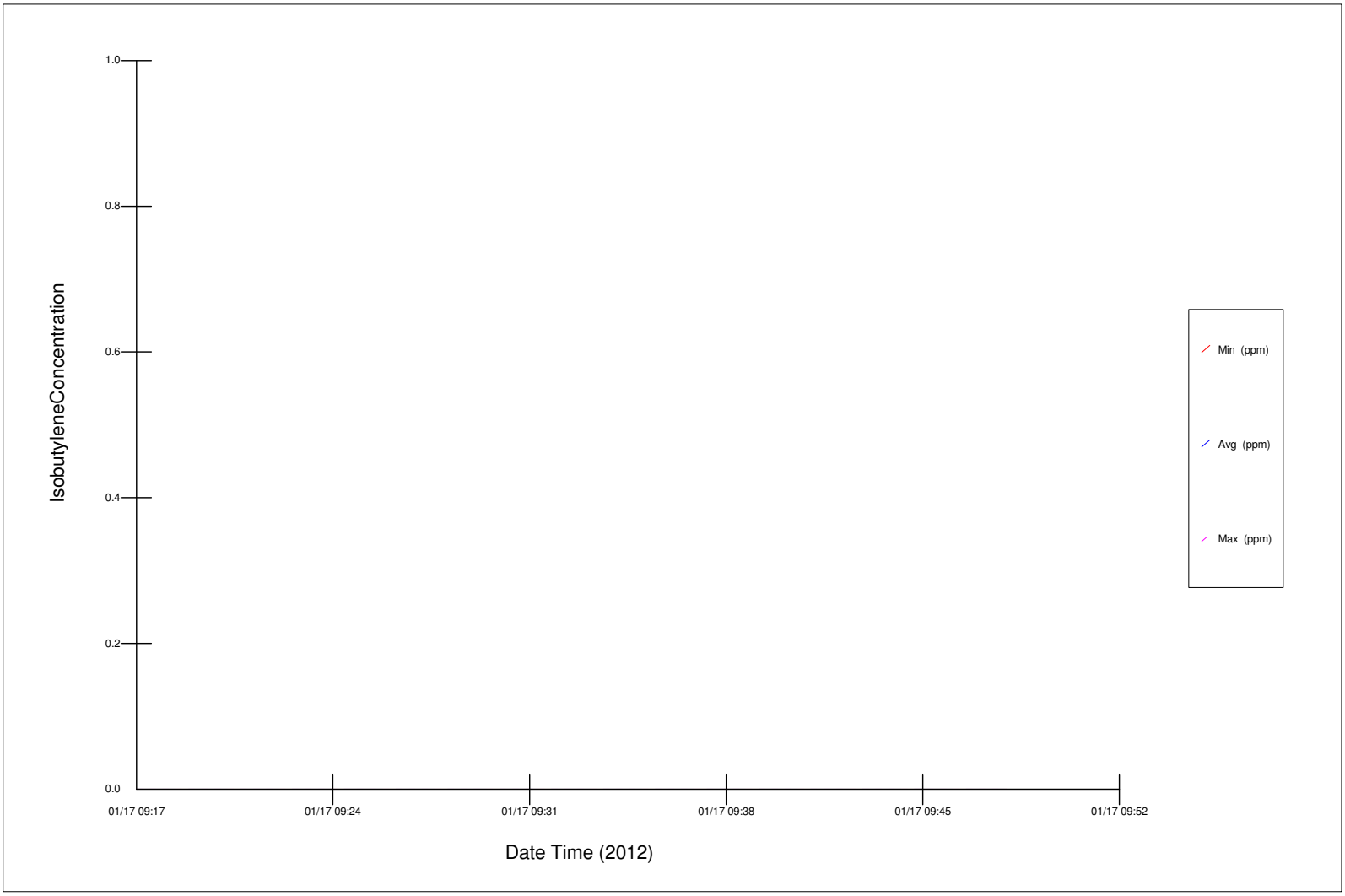
59	01/16/2012 14:44	0.0	0.0	0.0
60	01/16/2012 14:45	0.0	0.0	0.0
61	01/16/2012 14:46	0.0	0.0	0.0
62	01/16/2012 14:47	0.0	0.0	0.0
63	01/16/2012 14:48	0.0	0.0	0.0
64	01/16/2012 14:49	0.0	0.0	0.0
65	01/16/2012 14:50	0.0	0.0	0.0
66	01/16/2012 14:51	0.0	0.0	0.0
67	01/16/2012 14:52	0.0	0.0	0.0
68	01/16/2012 14:53	0.0	0.0	0.0
69	01/16/2012 14:54	0.0	0.0	0.0
70	01/16/2012 14:55	0.0	0.0	0.0
71	01/16/2012 14:56	0.0	0.0	0.0
72	01/16/2012 14:57	0.0	0.0	0.0
73	01/16/2012 14:58	0.0	0.0	0.0
74	01/16/2012 14:59	0.0	0.0	0.0
75	01/16/2012 15:00	0.0	0.0	0.0
76	01/16/2012 15:01	0.0	0.0	0.0
77	01/16/2012 15:02	0.0	0.0	0.0
78	01/16/2012 15:03	0.0	0.0	0.0
79	01/16/2012 15:04	0.0	0.0	0.0
80	01/16/2012 15:05	0.0	0.0	0.0
81	01/16/2012 15:06	0.0	0.0	0.0
82	01/16/2012 15:07	0.0	0.0	0.0
83	01/16/2012 15:08	0.0	0.0	0.0
84	01/16/2012 15:09	0.0	0.0	0.0
85	01/16/2012 15:10	0.0	0.0	0.0
86	01/16/2012 15:11	0.0	0.0	0.0
87	01/16/2012 15:12	0.0	0.0	0.0
88	01/16/2012 15:13	0.0	0.0	0.0
89	01/16/2012 15:14	0.0	0.0	0.0
90	01/16/2012 15:15	0.0	0.0	0.0
91	01/16/2012 15:16	0.0	0.0	0.0
92	01/16/2012 15:17	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/17 08:46
01/17 08:52
01/17 08:58
01/17 09:04
01/17 09:10
01/17 09:16
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000048
Data Points: 29 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

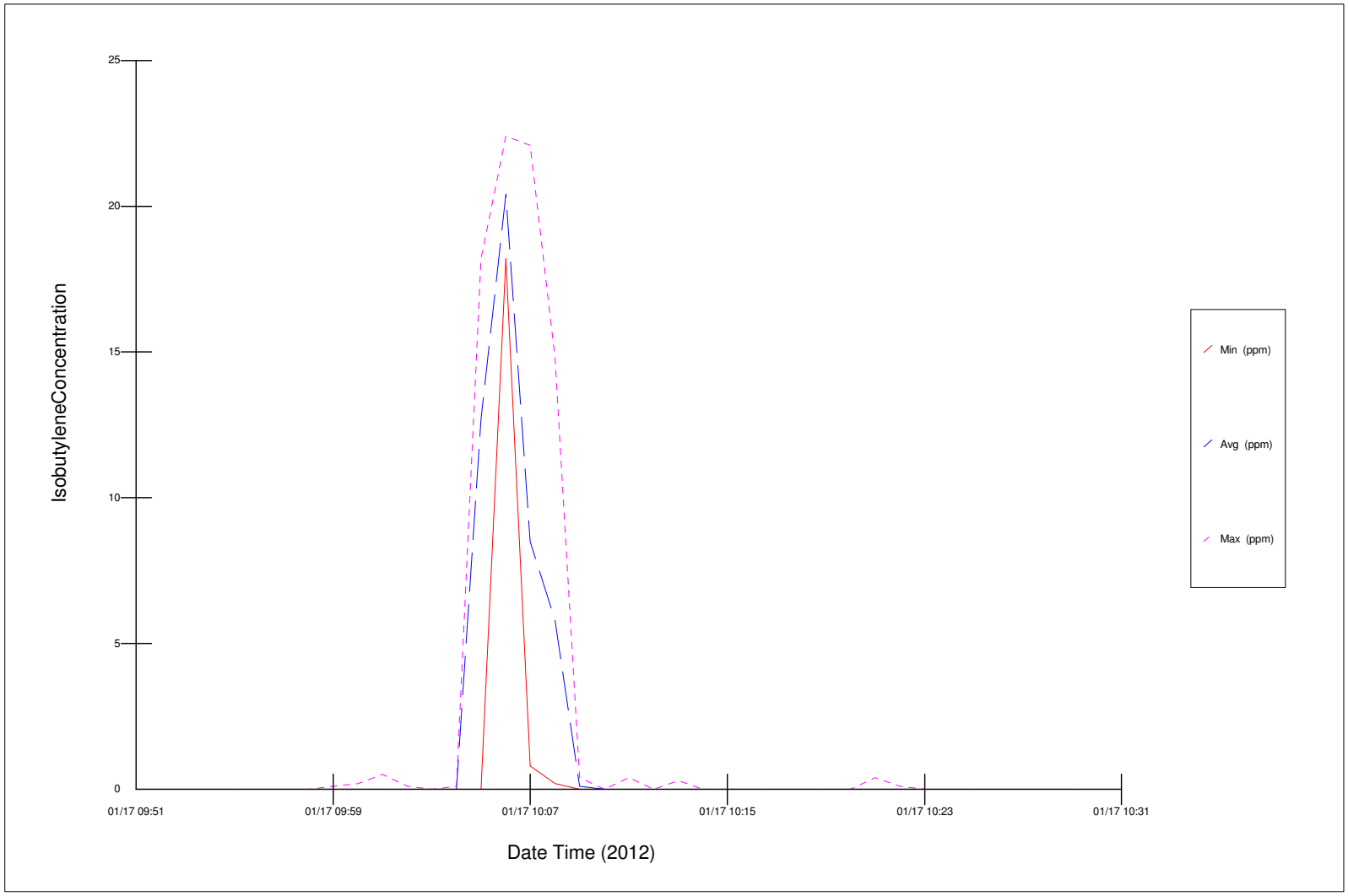
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	08:46	0.0	0.0	0.0
2	01/17/2012	08:47	0.0	0.0	0.0
3	01/17/2012	08:48	0.0	0.0	0.0
4	01/17/2012	08:49	0.0	0.0	0.0
5	01/17/2012	08:50	0.0	0.0	0.0
6	01/17/2012	08:51	0.0	0.0	0.0
7	01/17/2012	08:52	0.0	0.0	0.0
8	01/17/2012	08:53	0.0	0.0	0.0
9	01/17/2012	08:54	0.0	0.0	0.0
10	01/17/2012	08:55	0.0	0.0	0.0
11	01/17/2012	08:56	0.0	0.0	0.0
12	01/17/2012	08:57	0.0	0.0	0.0
13	01/17/2012	08:58	0.0	0.0	0.0
14	01/17/2012	08:59	0.0	0.0	0.0
15	01/17/2012	09:00	0.0	0.0	0.0
16	01/17/2012	09:01	0.0	0.0	0.0
17	01/17/2012	09:02	0.0	0.0	0.0
18	01/17/2012	09:03	0.0	0.0	0.0
19	01/17/2012	09:04	0.0	0.0	0.0
20	01/17/2012	09:05	0.0	0.0	0.0
21	01/17/2012	09:06	0.0	0.0	0.0
22	01/17/2012	09:07	0.0	0.0	0.0
23	01/17/2012	09:08	0.0	0.0	0.0
24	01/17/2012	09:09	0.0	0.0	0.0
25	01/17/2012	09:10	0.0	0.0	0.0
26	01/17/2012	09:11	0.0	0.0	0.0
27	01/17/2012	09:12	0.0	0.0	0.0
28	01/17/2012	09:13	0.0	0.0	0.0
29	01/17/2012	09:14	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/17 09:17
01/17 09:24
01/17 09:31
01/17 09:38
01/17 09:45
01/17 09:52
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000049
Data Points: 32 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

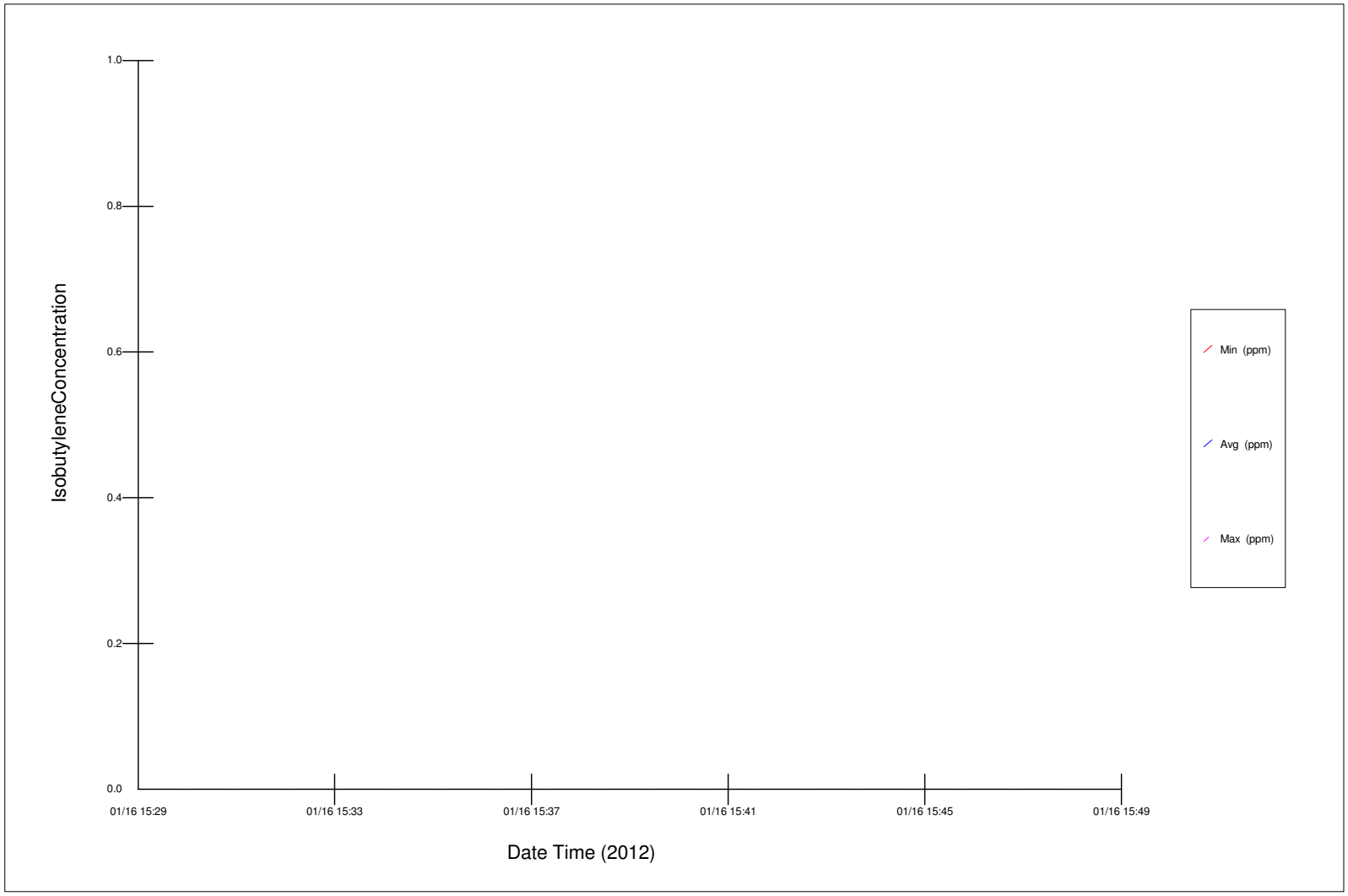
Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012 09:17	0.0	0.0	0.0
2	01/17/2012 09:18	0.0	0.0	0.0
3	01/17/2012 09:19	0.0	0.0	0.0
4	01/17/2012 09:20	0.0	0.0	0.0
5	01/17/2012 09:21	0.0	0.0	0.0
6	01/17/2012 09:22	0.0	0.0	0.0
7	01/17/2012 09:23	0.0	0.0	0.0
8	01/17/2012 09:24	0.0	0.0	0.0
9	01/17/2012 09:25	0.0	0.0	0.0
10	01/17/2012 09:26	0.0	0.0	0.0
11	01/17/2012 09:27	0.0	0.0	0.0
12	01/17/2012 09:28	0.0	0.0	0.0
13	01/17/2012 09:29	0.0	0.0	0.0
14	01/17/2012 09:30	0.0	0.0	0.0
15	01/17/2012 09:31	0.0	0.0	0.0
16	01/17/2012 09:32	0.0	0.0	0.0
17	01/17/2012 09:33	0.0	0.0	0.0
18	01/17/2012 09:34	0.0	0.0	0.0
19	01/17/2012 09:35	0.0	0.0	0.0
20	01/17/2012 09:36	0.0	0.0	0.0
21	01/17/2012 09:37	0.0	0.0	0.0
22	01/17/2012 09:38	0.0	0.0	0.0
23	01/17/2012 09:39	0.0	0.0	0.0
24	01/17/2012 09:40	0.0	0.0	0.0
25	01/17/2012 09:41	0.0	0.0	0.0
26	01/17/2012 09:42	0.0	0.0	0.0
27	01/17/2012 09:43	0.0	0.0	0.0
28	01/17/2012 09:44	0.0	0.0	0.0
29	01/17/2012 09:45	0.0	0.0	0.0
30	01/17/2012 09:46	0.0	0.0	0.0
31	01/17/2012 09:47	0.0	0.0	0.0
32	01/17/2012 09:48	0.0	0.0	0.0


IsobutyleneConcentration
25
20
15
10
5
0
01/17 09:51
01/17 09:59
01/17 10:07
01/17 10:15
01/17 10:23
01/17 10:31
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000050
Data Points: 39 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

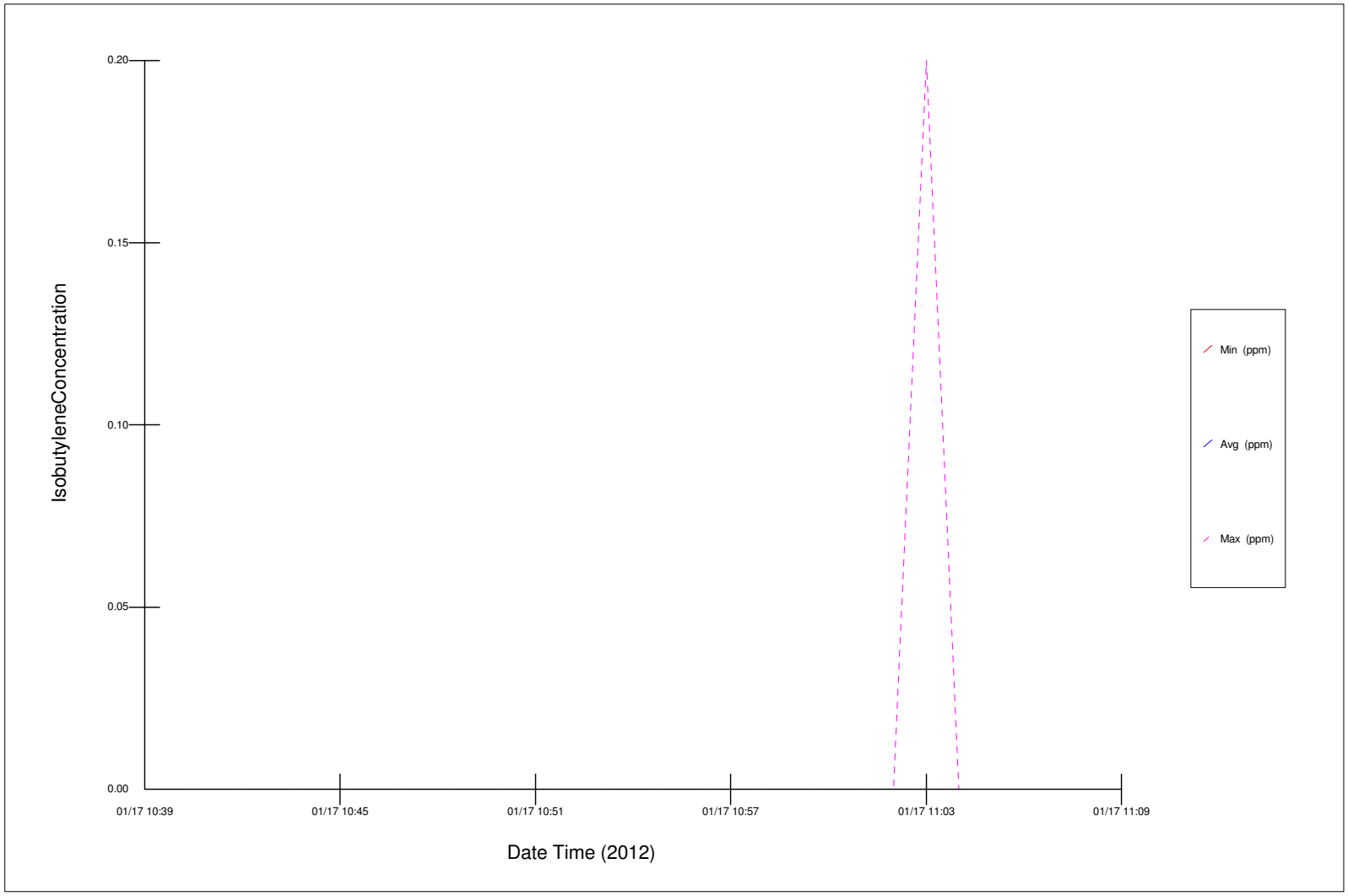
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	09:51	0.0	0.0	0.0
2	01/17/2012	09:52	0.0	0.0	0.0
3	01/17/2012	09:53	0.0	0.0	0.0
4	01/17/2012	09:54	0.0	0.0	0.0
5	01/17/2012	09:55	0.0	0.0	0.0
6	01/17/2012	09:56	0.0	0.0	0.0
7	01/17/2012	09:57	0.0	0.0	0.0
8	01/17/2012	09:58	0.0	0.0	0.0
9	01/17/2012	09:59	0.0	0.0	0.1
10	01/17/2012	10:00	0.0	0.0	0.2
11	01/17/2012	10:01	0.0	0.0	0.5
12	01/17/2012	10:02	0.0	0.0	0.1
13	01/17/2012	10:03	0.0	0.0	0.0
14	01/17/2012	10:04	0.0	0.0	0.1
15	01/17/2012	10:05	0.0	12.7	18.2
16	01/17/2012	10:06	18.2	20.4	22.4
17	01/17/2012	10:07	0.8	8.5	22.1
18	01/17/2012	10:08	0.2	5.8	14.8
19	01/17/2012	10:09	0.0	0.1	0.4
20	01/17/2012	10:10	0.0	0.0	0.0
21	01/17/2012	10:11	0.0	0.0	0.4
22	01/17/2012	10:12	0.0	0.0	0.0
23	01/17/2012	10:13	0.0	0.0	0.3
24	01/17/2012	10:14	0.0	0.0	0.0
25	01/17/2012	10:15	0.0	0.0	0.0
26	01/17/2012	10:16	0.0	0.0	0.0
27	01/17/2012	10:17	0.0	0.0	0.0
28	01/17/2012	10:18	0.0	0.0	0.0
29	01/17/2012	10:19	0.0	0.0	0.0
30	01/17/2012	10:20	0.0	0.0	0.0
31	01/17/2012	10:21	0.0	0.0	0.4
32	01/17/2012	10:22	0.0	0.0	0.1
33	01/17/2012	10:23	0.0	0.0	0.0
34	01/17/2012	10:24	0.0	0.0	0.0
35	01/17/2012	10:25	0.0	0.0	0.0
36	01/17/2012	10:26	0.0	0.0	0.0
37	01/17/2012	10:27	0.0	0.0	0.0
38	01/17/2012	10:28	0.0	0.0	0.0
39	01/17/2012	10:29	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/16 15:29
01/16 15:33
01/16 15:37
01/16 15:41
01/16 15:45
01/16 15:49
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000046
Data Points: 20 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/16/2012 07:45

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

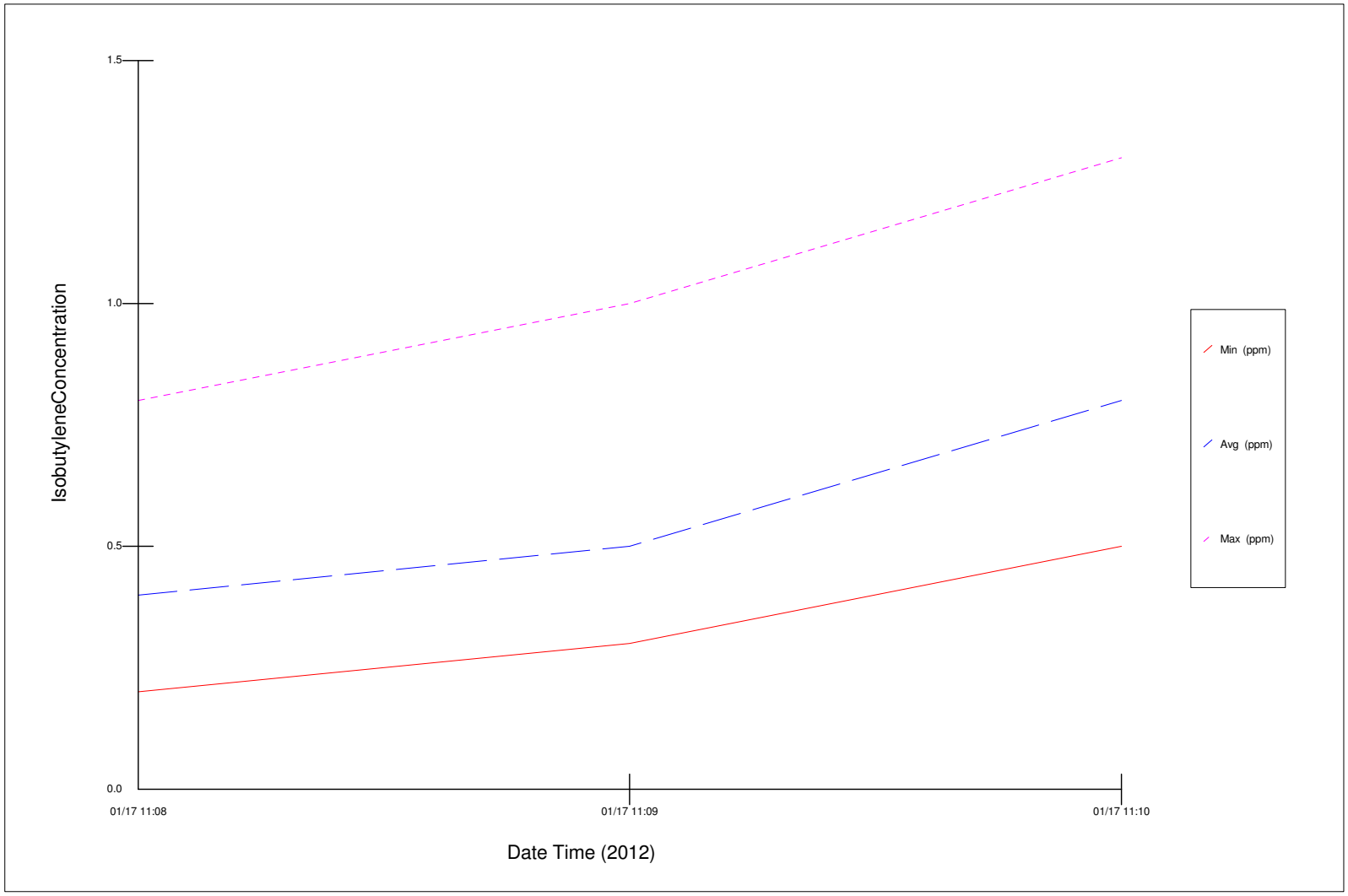
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/16/2012	15:29	0.0	0.0	0.0
2	01/16/2012	15:30	0.0	0.0	0.0
3	01/16/2012	15:31	0.0	0.0	0.0
4	01/16/2012	15:32	0.0	0.0	0.0
5	01/16/2012	15:33	0.0	0.0	0.0
6	01/16/2012	15:34	0.0	0.0	0.0
7	01/16/2012	15:35	0.0	0.0	0.0
8	01/16/2012	15:36	0.0	0.0	0.0
9	01/16/2012	15:37	0.0	0.0	0.0
10	01/16/2012	15:38	0.0	0.0	0.0
11	01/16/2012	15:39	0.0	0.0	0.0
12	01/16/2012	15:40	0.0	0.0	0.0
13	01/16/2012	15:41	0.0	0.0	0.0
14	01/16/2012	15:42	0.0	0.0	0.0
15	01/16/2012	15:43	0.0	0.0	0.0
16	01/16/2012	15:44	0.0	0.0	0.0
17	01/16/2012	15:45	0.0	0.0	0.0
18	01/16/2012	15:46	0.0	0.0	0.0
19	01/16/2012	15:47	0.0	0.0	0.0
20	01/16/2012	15:48	0.0	0.0	0.0


0.20
0.15
0.10
0.05
0.00
IsobutyleneConcentration
01/17 10:39
01/17 10:45
01/17 10:51
01/17 10:57
01/17 11:03
01/17 11:09
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000051
Data Points: 26 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

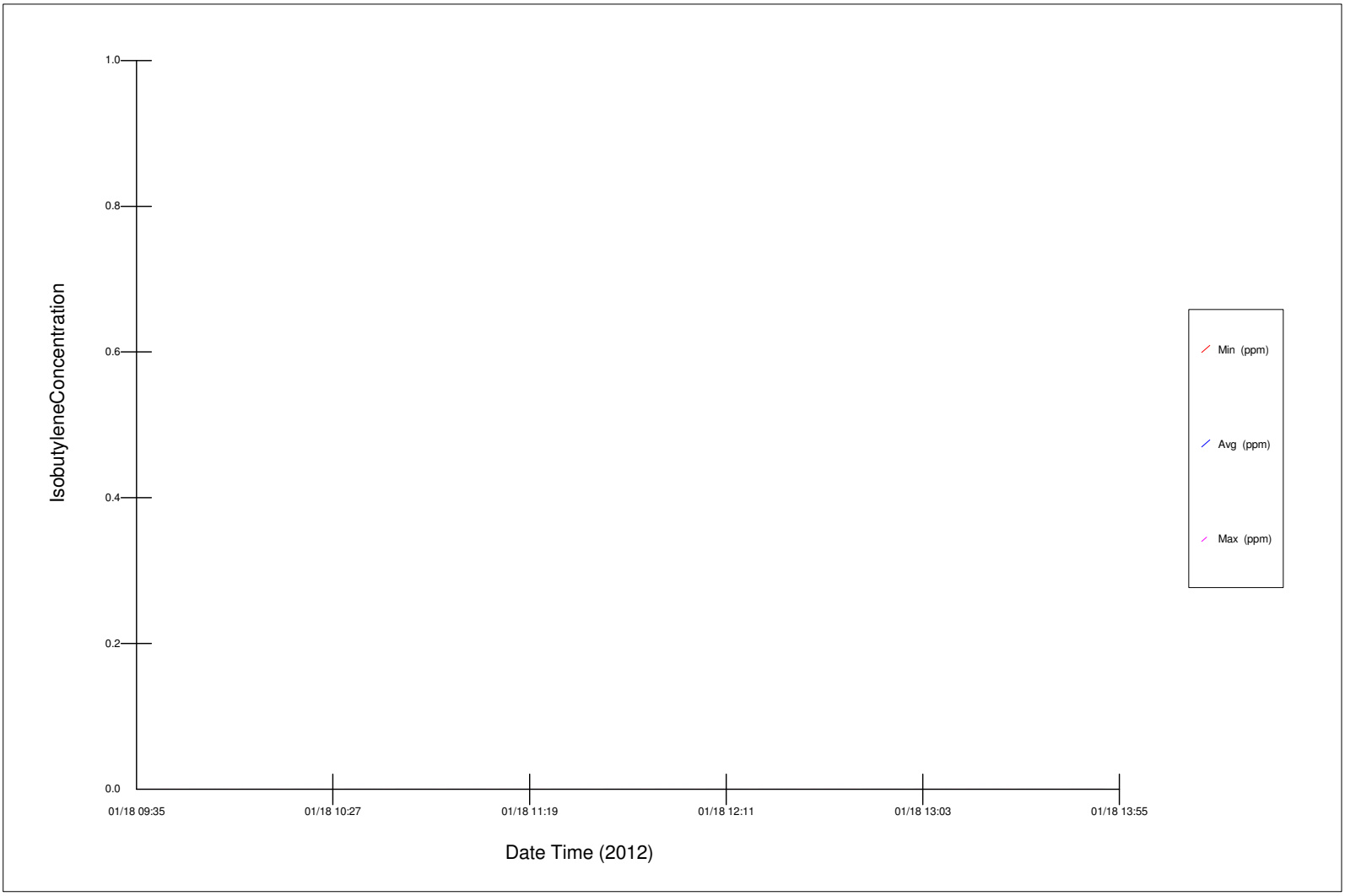
Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012	10:39	0.0	0.0	0.0
2	01/17/2012	10:40	0.0	0.0	0.0
3	01/17/2012	10:41	0.0	0.0	0.0
4	01/17/2012	10:42	0.0	0.0	0.0
5	01/17/2012	10:43	0.0	0.0	0.0
6	01/17/2012	10:44	0.0	0.0	0.0
7	01/17/2012	10:45	0.0	0.0	0.0
8	01/17/2012	10:46	0.0	0.0	0.0
9	01/17/2012	10:47	0.0	0.0	0.0
10	01/17/2012	10:48	0.0	0.0	0.0
11	01/17/2012	10:49	0.0	0.0	0.0
12	01/17/2012	10:50	0.0	0.0	0.0
13	01/17/2012	10:51	0.0	0.0	0.0
14	01/17/2012	10:52	0.0	0.0	0.0
15	01/17/2012	10:53	0.0	0.0	0.0
16	01/17/2012	10:54	0.0	0.0	0.0
17	01/17/2012	10:55	0.0	0.0	0.0
18	01/17/2012	10:56	0.0	0.0	0.0
19	01/17/2012	10:57	0.0	0.0	0.0
20	01/17/2012	10:58	0.0	0.0	0.0
21	01/17/2012	10:59	0.0	0.0	0.0
22	01/17/2012	11:00	0.0	0.0	0.0
23	01/17/2012	11:01	0.0	0.0	0.0
24	01/17/2012	11:02	0.0	0.0	0.0
25	01/17/2012	11:03	0.0	0.0	0.2
26	01/17/2012	11:04	0.0	0.0	0.0


1.5
1.0
0.5
0.0
IsobutyleneConcentration
01/17 11:08
01/17 11:09
01/17 11:10
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000052
Data Points: 3 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/17/2012 11:08	0.2	0.4	0.8
2	01/17/2012 11:09	0.3	0.5	1.0
3	01/17/2012 11:10	0.5	0.8	1.3


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/18 09:35
01/18 10:27
01/18 11:19
01/18 12:11
01/18 13:03
01/18 13:55
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000054
Data Points: 257 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/17/2012 08:29

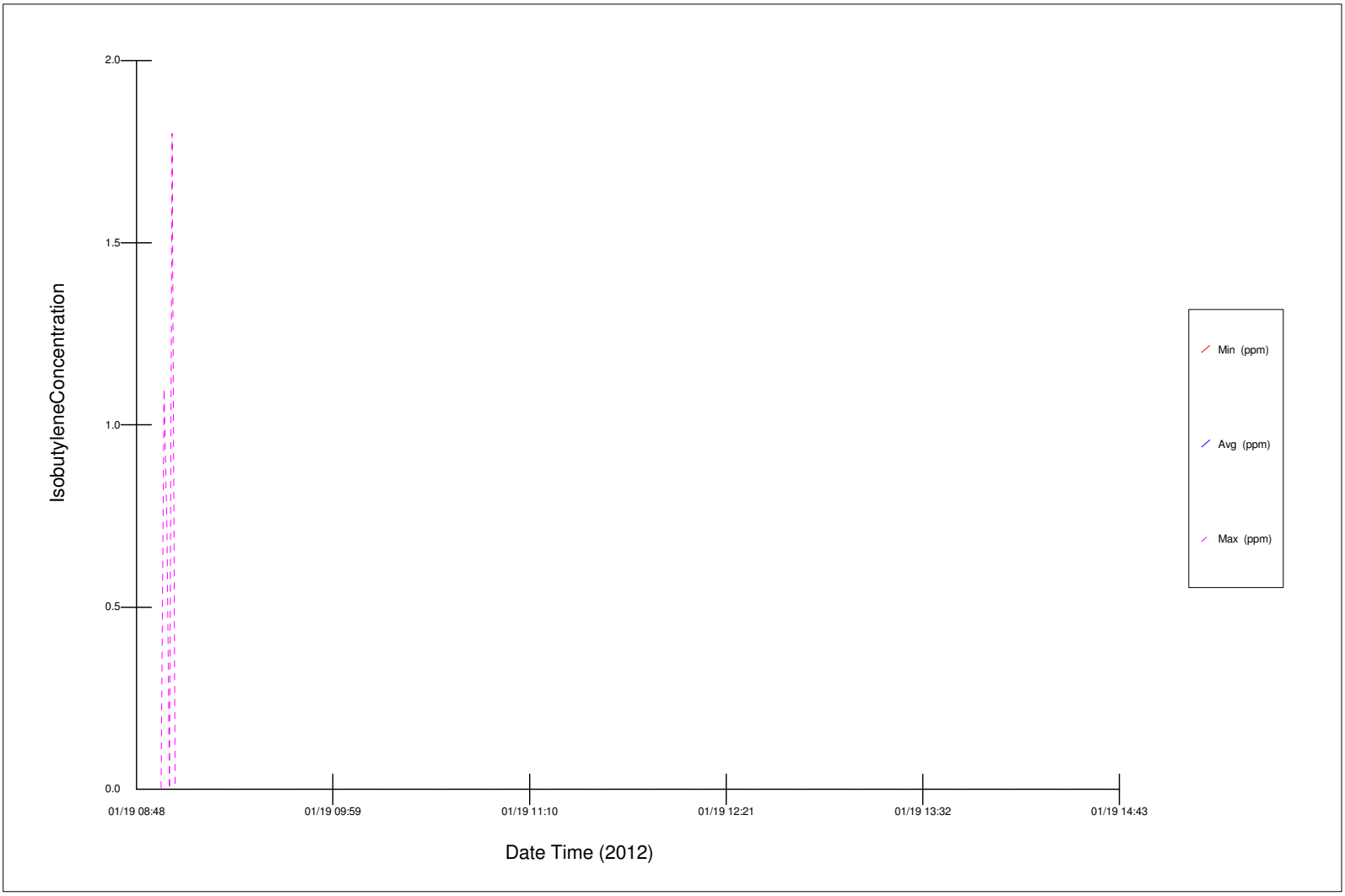
Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/18/2012	09:35	0.0	0.0	0.0
2	01/18/2012	09:36	0.0	0.0	0.0
3	01/18/2012	09:37	0.0	0.0	0.0
4	01/18/2012	09:38	0.0	0.0	0.0
5	01/18/2012	09:39	0.0	0.0	0.0
6	01/18/2012	09:40	0.0	0.0	0.0
7	01/18/2012	09:41	0.0	0.0	0.0
8	01/18/2012	09:42	0.0	0.0	0.0
9	01/18/2012	09:43	0.0	0.0	0.0
10	01/18/2012	09:44	0.0	0.0	0.0
11	01/18/2012	09:45	0.0	0.0	0.0
12	01/18/2012	09:46	0.0	0.0	0.0
13	01/18/2012	09:47	0.0	0.0	0.0
14	01/18/2012	09:48	0.0	0.0	0.0
15	01/18/2012	09:49	0.0	0.0	0.0
16	01/18/2012	09:50	0.0	0.0	0.0
17	01/18/2012	09:51	0.0	0.0	0.0
18	01/18/2012	09:52	0.0	0.0	0.0
19	01/18/2012	09:53	0.0	0.0	0.0
20	01/18/2012	09:54	0.0	0.0	0.0
21	01/18/2012	09:55	0.0	0.0	0.0
22	01/18/2012	09:56	0.0	0.0	0.0
23	01/18/2012	09:57	0.0	0.0	0.0
24	01/18/2012	09:58	0.0	0.0	0.0
25	01/18/2012	09:59	0.0	0.0	0.0
26	01/18/2012	10:00	0.0	0.0	0.0
27	01/18/2012	10:01	0.0	0.0	0.0
28	01/18/2012	10:02	0.0	0.0	0.0
29	01/18/2012	10:03	0.0	0.0	0.0
30	01/18/2012	10:04	0.0	0.0	0.0
31	01/18/2012	10:05	0.0	0.0	0.0
32	01/18/2012	10:06	0.0	0.0	0.0
33	01/18/2012	10:07	0.0	0.0	0.0
34	01/18/2012	10:08	0.0	0.0	0.0
35	01/18/2012	10:09	0.0	0.0	0.0
36	01/18/2012	10:10	0.0	0.0	0.0
37	01/18/2012	10:11	0.0	0.0	0.0
38	01/18/2012	10:12	0.0	0.0	0.0
39	01/18/2012	10:13	0.0	0.0	0.0
40	01/18/2012	10:14	0.0	0.0	0.0
41	01/18/2012	10:15	0.0	0.0	0.0
42	01/18/2012	10:16	0.0	0.0	0.0
43	01/18/2012	10:17	0.0	0.0	0.0
44	01/18/2012	10:18	0.0	0.0	0.0
45	01/18/2012	10:19	0.0	0.0	0.0
46	01/18/2012	10:20	0.0	0.0	0.0
47	01/18/2012	10:21	0.0	0.0	0.0
48	01/18/2012	10:22	0.0	0.0	0.0
49	01/18/2012	10:23	0.0	0.0	0.0
50	01/18/2012	10:24	0.0	0.0	0.0
51	01/18/2012	10:25	0.0	0.0	0.0
52	01/18/2012	10:26	0.0	0.0	0.0
53	01/18/2012	10:27	0.0	0.0	0.0
54	01/18/2012	10:28	0.0	0.0	0.0
55	01/18/2012	10:29	0.0	0.0	0.0
56	01/18/2012	10:30	0.0	0.0	0.0
57	01/18/2012	10:31	0.0	0.0	0.0
58	01/18/2012	10:32	0.0	0.0	0.0

59	01/18/2012 10:33	0.0	0.0	0.0
60	01/18/2012 10:34	0.0	0.0	0.0
61	01/18/2012 10:35	0.0	0.0	0.0
62	01/18/2012 10:36	0.0	0.0	0.0
63	01/18/2012 10:37	0.0	0.0	0.0
64	01/18/2012 10:38	0.0	0.0	0.0
65	01/18/2012 10:39	0.0	0.0	0.0
66	01/18/2012 10:40	0.0	0.0	0.0
67	01/18/2012 10:41	0.0	0.0	0.0
68	01/18/2012 10:42	0.0	0.0	0.0
69	01/18/2012 10:43	0.0	0.0	0.0
70	01/18/2012 10:44	0.0	0.0	0.0
71	01/18/2012 10:45	0.0	0.0	0.0
72	01/18/2012 10:46	0.0	0.0	0.0
73	01/18/2012 10:47	0.0	0.0	0.0
74	01/18/2012 10:48	0.0	0.0	0.0
75	01/18/2012 10:49	0.0	0.0	0.0
76	01/18/2012 10:50	0.0	0.0	0.0
77	01/18/2012 10:51	0.0	0.0	0.0
78	01/18/2012 10:52	0.0	0.0	0.0
79	01/18/2012 10:53	0.0	0.0	0.0
80	01/18/2012 10:54	0.0	0.0	0.0
81	01/18/2012 10:55	0.0	0.0	0.0
82	01/18/2012 10:56	0.0	0.0	0.0
83	01/18/2012 10:57	0.0	0.0	0.0
84	01/18/2012 10:58	0.0	0.0	0.0
85	01/18/2012 10:59	0.0	0.0	0.0
86	01/18/2012 11:00	0.0	0.0	0.0
87	01/18/2012 11:01	0.0	0.0	0.0
88	01/18/2012 11:02	0.0	0.0	0.0
89	01/18/2012 11:03	0.0	0.0	0.0
90	01/18/2012 11:04	0.0	0.0	0.0
91	01/18/2012 11:05	0.0	0.0	0.0
92	01/18/2012 11:06	0.0	0.0	0.0
93	01/18/2012 11:07	0.0	0.0	0.0
94	01/18/2012 11:08	0.0	0.0	0.0
95	01/18/2012 11:09	0.0	0.0	0.0
96	01/18/2012 11:10	0.0	0.0	0.0
97	01/18/2012 11:11	0.0	0.0	0.0
98	01/18/2012 11:12	0.0	0.0	0.0
99	01/18/2012 11:13	0.0	0.0	0.0
100	01/18/2012 11:14	0.0	0.0	0.0
101	01/18/2012 11:15	0.0	0.0	0.0
102	01/18/2012 11:16	0.0	0.0	0.0
103	01/18/2012 11:17	0.0	0.0	0.0
104	01/18/2012 11:18	0.0	0.0	0.0
105	01/18/2012 11:19	0.0	0.0	0.0
106	01/18/2012 11:20	0.0	0.0	0.0
107	01/18/2012 11:21	0.0	0.0	0.0
108	01/18/2012 11:22	0.0	0.0	0.0
109	01/18/2012 11:23	0.0	0.0	0.0
110	01/18/2012 11:24	0.0	0.0	0.0
111	01/18/2012 11:25	0.0	0.0	0.0
112	01/18/2012 11:26	0.0	0.0	0.0
113	01/18/2012 11:27	0.0	0.0	0.0
114	01/18/2012 11:28	0.0	0.0	0.0
115	01/18/2012 11:29	0.0	0.0	0.0
116	01/18/2012 11:30	0.0	0.0	0.0
117	01/18/2012 11:31	0.0	0.0	0.0
118	01/18/2012 11:32	0.0	0.0	0.0
119	01/18/2012 11:33	0.0	0.0	0.0
120	01/18/2012 11:34	0.0	0.0	0.0
121	01/18/2012 11:35	0.0	0.0	0.0
122	01/18/2012 11:36	0.0	0.0	0.0
123	01/18/2012 11:37	0.0	0.0	0.0
124	01/18/2012 11:38	0.0	0.0	0.0
125	01/18/2012 11:39	0.0	0.0	0.0
126	01/18/2012 11:40	0.0	0.0	0.0
127	01/18/2012 11:41	0.0	0.0	0.0

128	01/18/2012 11:42	0.0	0.0	0.0
129	01/18/2012 11:43	0.0	0.0	0.0
130	01/18/2012 11:44	0.0	0.0	0.0
131	01/18/2012 11:45	0.0	0.0	0.0
132	01/18/2012 11:46	0.0	0.0	0.0
133	01/18/2012 11:47	0.0	0.0	0.0
134	01/18/2012 11:48	0.0	0.0	0.0
135	01/18/2012 11:49	0.0	0.0	0.0
136	01/18/2012 11:50	0.0	0.0	0.0
137	01/18/2012 11:51	0.0	0.0	0.0
138	01/18/2012 11:52	0.0	0.0	0.0
139	01/18/2012 11:53	0.0	0.0	0.0
140	01/18/2012 11:54	0.0	0.0	0.0
141	01/18/2012 11:55	0.0	0.0	0.0
142	01/18/2012 11:56	0.0	0.0	0.0
143	01/18/2012 11:57	0.0	0.0	0.0
144	01/18/2012 11:58	0.0	0.0	0.0
145	01/18/2012 11:59	0.0	0.0	0.0
146	01/18/2012 12:00	0.0	0.0	0.0
147	01/18/2012 12:01	0.0	0.0	0.0
148	01/18/2012 12:02	0.0	0.0	0.0
149	01/18/2012 12:03	0.0	0.0	0.0
150	01/18/2012 12:04	0.0	0.0	0.0
151	01/18/2012 12:05	0.0	0.0	0.0
152	01/18/2012 12:06	0.0	0.0	0.0
153	01/18/2012 12:07	0.0	0.0	0.0
154	01/18/2012 12:08	0.0	0.0	0.0
155	01/18/2012 12:09	0.0	0.0	0.0
156	01/18/2012 12:10	0.0	0.0	0.0
157	01/18/2012 12:11	0.0	0.0	0.0
158	01/18/2012 12:12	0.0	0.0	0.0
159	01/18/2012 12:13	0.0	0.0	0.0
160	01/18/2012 12:14	0.0	0.0	0.0
161	01/18/2012 12:15	0.0	0.0	0.0
162	01/18/2012 12:16	0.0	0.0	0.0
163	01/18/2012 12:17	0.0	0.0	0.0
164	01/18/2012 12:18	0.0	0.0	0.0
165	01/18/2012 12:19	0.0	0.0	0.0
166	01/18/2012 12:20	0.0	0.0	0.0
167	01/18/2012 12:21	0.0	0.0	0.0
168	01/18/2012 12:22	0.0	0.0	0.0
169	01/18/2012 12:23	0.0	0.0	0.0
170	01/18/2012 12:24	0.0	0.0	0.0
171	01/18/2012 12:25	0.0	0.0	0.0
172	01/18/2012 12:26	0.0	0.0	0.0
173	01/18/2012 12:27	0.0	0.0	0.0
174	01/18/2012 12:28	0.0	0.0	0.0
175	01/18/2012 12:29	0.0	0.0	0.0
176	01/18/2012 12:30	0.0	0.0	0.0
177	01/18/2012 12:31	0.0	0.0	0.0
178	01/18/2012 12:32	0.0	0.0	0.0
179	01/18/2012 12:33	0.0	0.0	0.0
180	01/18/2012 12:34	0.0	0.0	0.0
181	01/18/2012 12:35	0.0	0.0	0.0
182	01/18/2012 12:36	0.0	0.0	0.0
183	01/18/2012 12:37	0.0	0.0	0.0
184	01/18/2012 12:38	0.0	0.0	0.0
185	01/18/2012 12:39	0.0	0.0	0.0
186	01/18/2012 12:40	0.0	0.0	0.0
187	01/18/2012 12:41	0.0	0.0	0.0
188	01/18/2012 12:42	0.0	0.0	0.0
189	01/18/2012 12:43	0.0	0.0	0.0
190	01/18/2012 12:44	0.0	0.0	0.0
191	01/18/2012 12:45	0.0	0.0	0.0
192	01/18/2012 12:46	0.0	0.0	0.0
193	01/18/2012 12:47	0.0	0.0	0.0
194	01/18/2012 12:48	0.0	0.0	0.0
195	01/18/2012 12:49	0.0	0.0	0.0
196	01/18/2012 12:50	0.0	0.0	0.0

197	01/18/2012 12:51	0.0	0.0	0.0
198	01/18/2012 12:52	0.0	0.0	0.0
199	01/18/2012 12:53	0.0	0.0	0.0
200	01/18/2012 12:54	0.0	0.0	0.0
201	01/18/2012 12:55	0.0	0.0	0.0
202	01/18/2012 12:56	0.0	0.0	0.0
203	01/18/2012 12:57	0.0	0.0	0.0
204	01/18/2012 12:58	0.0	0.0	0.0
205	01/18/2012 12:59	0.0	0.0	0.0
206	01/18/2012 13:00	0.0	0.0	0.0
207	01/18/2012 13:01	0.0	0.0	0.0
208	01/18/2012 13:02	0.0	0.0	0.0
209	01/18/2012 13:03	0.0	0.0	0.0
210	01/18/2012 13:04	0.0	0.0	0.0
211	01/18/2012 13:05	0.0	0.0	0.0
212	01/18/2012 13:06	0.0	0.0	0.0
213	01/18/2012 13:07	0.0	0.0	0.0
214	01/18/2012 13:08	0.0	0.0	0.0
215	01/18/2012 13:09	0.0	0.0	0.0
216	01/18/2012 13:10	0.0	0.0	0.0
217	01/18/2012 13:11	0.0	0.0	0.0
218	01/18/2012 13:12	0.0	0.0	0.0
219	01/18/2012 13:13	0.0	0.0	0.0
220	01/18/2012 13:14	0.0	0.0	0.0
221	01/18/2012 13:15	0.0	0.0	0.0
222	01/18/2012 13:16	0.0	0.0	0.0
223	01/18/2012 13:17	0.0	0.0	0.0
224	01/18/2012 13:18	0.0	0.0	0.0
225	01/18/2012 13:19	0.0	0.0	0.0
226	01/18/2012 13:20	0.0	0.0	0.0
227	01/18/2012 13:21	0.0	0.0	0.0
228	01/18/2012 13:22	0.0	0.0	0.0
229	01/18/2012 13:23	0.0	0.0	0.0
230	01/18/2012 13:24	0.0	0.0	0.0
231	01/18/2012 13:25	0.0	0.0	0.0
232	01/18/2012 13:26	0.0	0.0	0.0
233	01/18/2012 13:27	0.0	0.0	0.0
234	01/18/2012 13:28	0.0	0.0	0.0
235	01/18/2012 13:29	0.0	0.0	0.0
236	01/18/2012 13:30	0.0	0.0	0.0
237	01/18/2012 13:31	0.0	0.0	0.0
238	01/18/2012 13:32	0.0	0.0	0.0
239	01/18/2012 13:33	0.0	0.0	0.0
240	01/18/2012 13:34	0.0	0.0	0.0
241	01/18/2012 13:35	0.0	0.0	0.0
242	01/18/2012 13:36	0.0	0.0	0.0
243	01/18/2012 13:37	0.0	0.0	0.0
244	01/18/2012 13:38	0.0	0.0	0.0
245	01/18/2012 13:39	0.0	0.0	0.0
246	01/18/2012 13:40	0.0	0.0	0.0
247	01/18/2012 13:41	0.0	0.0	0.0
248	01/18/2012 13:42	0.0	0.0	0.0
249	01/18/2012 13:43	0.0	0.0	0.0
250	01/18/2012 13:44	0.0	0.0	0.0
251	01/18/2012 13:45	0.0	0.0	0.0
252	01/18/2012 13:46	0.0	0.0	0.0
253	01/18/2012 13:47	0.0	0.0	0.0
254	01/18/2012 13:48	0.0	0.0	0.0
255	01/18/2012 13:49	0.0	0.0	0.0
256	01/18/2012 13:50	0.0	0.0	0.0
257	01/18/2012 13:51	0.0	0.0	0.0


2.0
1.5
1.0
0.5
0.0
IsobutyleneConcentration
01/19 08:48
01/19 09:59
01/19 11:10
01/19 12:21
01/19 13:32
01/19 14:43
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000057
Data Points: 355 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/19/2012 07:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/19/2012	08:48	0.0	0.0	0.0
2	01/19/2012	08:49	0.0	0.0	0.0
3	01/19/2012	08:50	0.0	0.0	0.0
4	01/19/2012	08:51	0.0	0.0	0.0
5	01/19/2012	08:52	0.0	0.0	0.0
6	01/19/2012	08:53	0.0	0.0	0.0
7	01/19/2012	08:54	0.0	0.0	0.0
8	01/19/2012	08:55	0.0	0.0	0.0
9	01/19/2012	08:56	0.0	0.0	0.0
10	01/19/2012	08:57	0.0	0.0	0.0
11	01/19/2012	08:58	0.0	0.0	1.1
12	01/19/2012	08:59	0.0	0.0	0.7
13	01/19/2012	09:00	0.0	0.0	0.0
14	01/19/2012	09:01	0.0	0.0	1.8
15	01/19/2012	09:02	0.0	0.0	0.0
16	01/19/2012	09:03	0.0	0.0	0.0
17	01/19/2012	09:04	0.0	0.0	0.0
18	01/19/2012	09:05	0.0	0.0	0.0
19	01/19/2012	09:06	0.0	0.0	0.0
20	01/19/2012	09:07	0.0	0.0	0.0
21	01/19/2012	09:08	0.0	0.0	0.0
22	01/19/2012	09:09	0.0	0.0	0.0
23	01/19/2012	09:10	0.0	0.0	0.0
24	01/19/2012	09:11	0.0	0.0	0.0
25	01/19/2012	09:12	0.0	0.0	0.0
26	01/19/2012	09:13	0.0	0.0	0.0
27	01/19/2012	09:14	0.0	0.0	0.0
28	01/19/2012	09:15	0.0	0.0	0.0
29	01/19/2012	09:16	0.0	0.0	0.0
30	01/19/2012	09:17	0.0	0.0	0.0
31	01/19/2012	09:18	0.0	0.0	0.0
32	01/19/2012	09:19	0.0	0.0	0.0
33	01/19/2012	09:20	0.0	0.0	0.0
34	01/19/2012	09:21	0.0	0.0	0.0
35	01/19/2012	09:22	0.0	0.0	0.0
36	01/19/2012	09:23	0.0	0.0	0.0
37	01/19/2012	09:24	0.0	0.0	0.0
38	01/19/2012	09:25	0.0	0.0	0.0
39	01/19/2012	09:26	0.0	0.0	0.0
40	01/19/2012	09:27	0.0	0.0	0.0
41	01/19/2012	09:28	0.0	0.0	0.0
42	01/19/2012	09:29	0.0	0.0	0.0
43	01/19/2012	09:30	0.0	0.0	0.0
44	01/19/2012	09:31	0.0	0.0	0.0
45	01/19/2012	09:32	0.0	0.0	0.0
46	01/19/2012	09:33	0.0	0.0	0.0
47	01/19/2012	09:34	0.0	0.0	0.0
48	01/19/2012	09:35	0.0	0.0	0.0
49	01/19/2012	09:36	0.0	0.0	0.0
50	01/19/2012	09:37	0.0	0.0	0.0
51	01/19/2012	09:38	0.0	0.0	0.0
52	01/19/2012	09:39	0.0	0.0	0.0
53	01/19/2012	09:40	0.0	0.0	0.0
54	01/19/2012	09:41	0.0	0.0	0.0
55	01/19/2012	09:42	0.0	0.0	0.0
56	01/19/2012	09:43	0.0	0.0	0.0
57	01/19/2012	09:44	0.0	0.0	0.0
58	01/19/2012	09:45	0.0	0.0	0.0

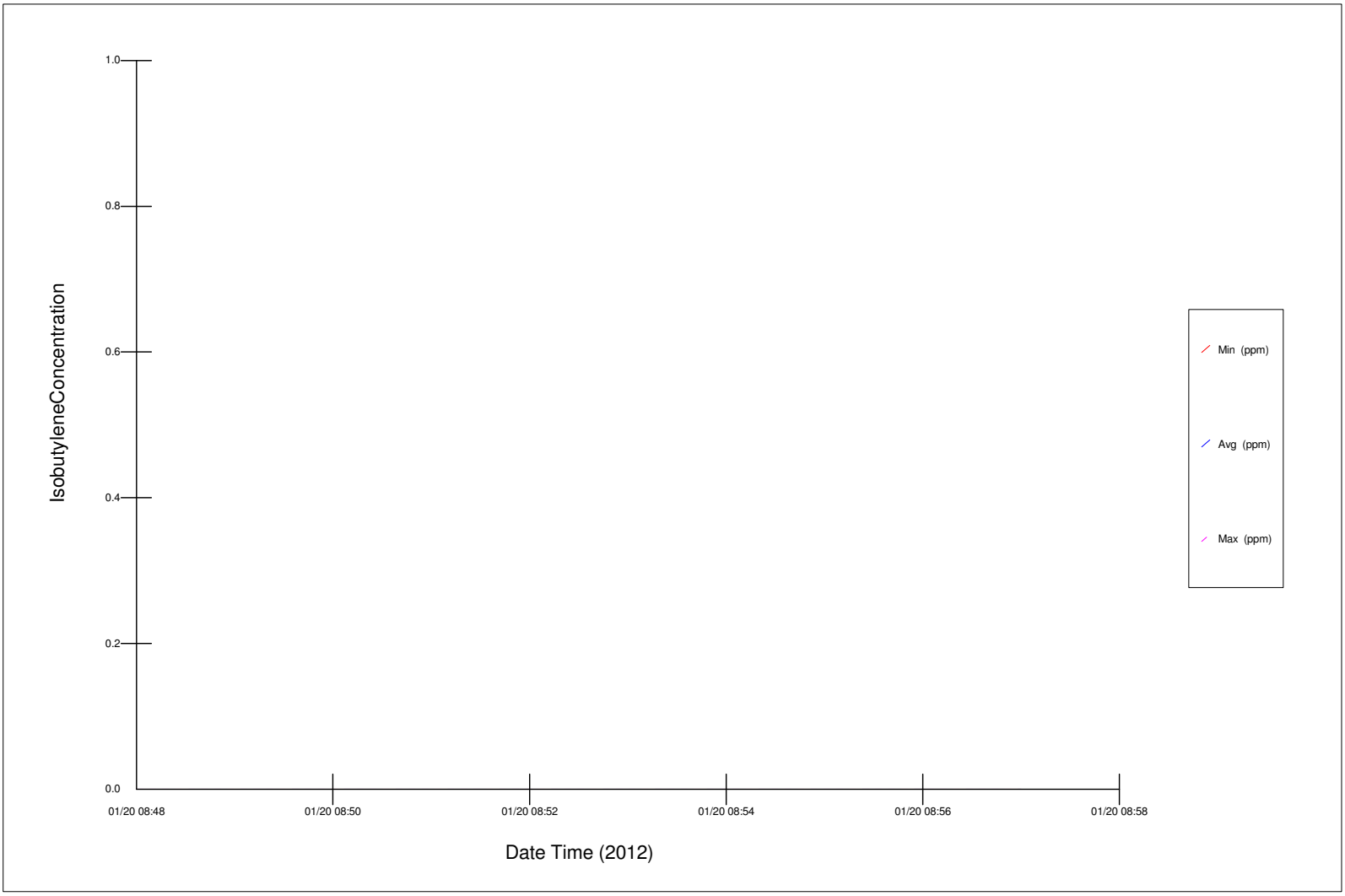
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62	01/19/2012 09:49	0.0	0.0	0.0
63	01/19/2012 09:50	0.0	0.0	0.0
64	01/19/2012 09:51	0.0	0.0	0.0
65	01/19/2012 09:52	0.0	0.0	0.0
66	01/19/2012 09:53	0.0	0.0	0.0
67	01/19/2012 09:54	0.0	0.0	0.0
68	01/19/2012 09:55	0.0	0.0	0.0
69	01/19/2012 09:56	0.0	0.0	0.0
70	01/19/2012 09:57	0.0	0.0	0.0
71	01/19/2012 09:58	0.0	0.0	0.0
72	01/19/2012 09:59	0.0	0.0	0.0
73	01/19/2012 10:00	0.0	0.0	0.0
74	01/19/2012 10:01	0.0	0.0	0.0
75	01/19/2012 10:02	0.0	0.0	0.0
76	01/19/2012 10:03	0.0	0.0	0.0
77	01/19/2012 10:04	0.0	0.0	0.0
78	01/19/2012 10:05	0.0	0.0	0.0
79	01/19/2012 10:06	0.0	0.0	0.0
80	01/19/2012 10:07	0.0	0.0	0.0
81	01/19/2012 10:08	0.0	0.0	0.0
82	01/19/2012 10:09	0.0	0.0	0.0
83	01/19/2012 10:10	0.0	0.0	0.0
84	01/19/2012 10:11	0.0	0.0	0.0
85	01/19/2012 10:12	0.0	0.0	0.0
86	01/19/2012 10:13	0.0	0.0	0.0
87	01/19/2012 10:14	0.0	0.0	0.0
88	01/19/2012 10:15	0.0	0.0	0.0
89	01/19/2012 10:16	0.0	0.0	0.0
90	01/19/2012 10:17	0.0	0.0	0.0
91	01/19/2012 10:18	0.0	0.0	0.0
92	01/19/2012 10:19	0.0	0.0	0.0
93	01/19/2012 10:20	0.0	0.0	0.0
94	01/19/2012 10:21	0.0	0.0	0.0
95	01/19/2012 10:22	0.0	0.0	0.0
96	01/19/2012 10:23	0.0	0.0	0.0
97	01/19/2012 10:24	0.0	0.0	0.0
98	01/19/2012 10:25	0.0	0.0	0.0
99	01/19/2012 10:26	0.0	0.0	0.0
100	01/19/2012 10:27	0.0	0.0	0.0
101	01/19/2012 10:28	0.0	0.0	0.0
102	01/19/2012 10:29	0.0	0.0	0.0
103	01/19/2012 10:30	0.0	0.0	0.0
104	01/19/2012 10:31	0.0	0.0	0.0
105	01/19/2012 10:32	0.0	0.0	0.0
106	01/19/2012 10:33	0.0	0.0	0.0
107	01/19/2012 10:34	0.0	0.0	0.0
108	01/19/2012 10:35	0.0	0.0	0.0
109	01/19/2012 10:36	0.0	0.0	0.0
110	01/19/2012 10:37	0.0	0.0	0.0
111	01/19/2012 10:38	0.0	0.0	0.0
112	01/19/2012 10:39	0.0	0.0	0.0
113	01/19/2012 10:40	0.0	0.0	0.0
114	01/19/2012 10:41	0.0	0.0	0.0
115	01/19/2012 10:42	0.0	0.0	0.0
116	01/19/2012 10:43	0.0	0.0	0.0
117	01/19/2012 10:44	0.0	0.0	0.0
118	01/19/2012 10:45	0.0	0.0	0.0
119	01/19/2012 10:46	0.0	0.0	0.0
120	01/19/2012 10:47	0.0	0.0	0.0
121	01/19/2012 10:48	0.0	0.0	0.0
122	01/19/2012 10:49	0.0	0.0	0.0
123	01/19/2012 10:50	0.0	0.0	0.0
124	01/19/2012 10:51	0.0	0.0	0.0
125	01/19/2012 10:52	0.0	0.0	0.0
126	01/19/2012 10:53	0.0	0.0	0.0
127	01/19/2012 10:54	0.0	0.0	0.0

128	01/19/2012 10:55	0.0	0.0	0.0
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130	01/19/2012 10:57	0.0	0.0	0.0
131	01/19/2012 10:58	0.0	0.0	0.0
132	01/19/2012 10:59	0.0	0.0	0.0
133	01/19/2012 11:00	0.0	0.0	0.0
134	01/19/2012 11:01	0.0	0.0	0.0
135	01/19/2012 11:02	0.0	0.0	0.0
136	01/19/2012 11:03	0.0	0.0	0.0
137	01/19/2012 11:04	0.0	0.0	0.0
138	01/19/2012 11:05	0.0	0.0	0.0
139	01/19/2012 11:06	0.0	0.0	0.0
140	01/19/2012 11:07	0.0	0.0	0.0
141	01/19/2012 11:08	0.0	0.0	0.0
142	01/19/2012 11:09	0.0	0.0	0.0
143	01/19/2012 11:10	0.0	0.0	0.0
144	01/19/2012 11:11	0.0	0.0	0.0
145	01/19/2012 11:12	0.0	0.0	0.0
146	01/19/2012 11:13	0.0	0.0	0.0
147	01/19/2012 11:14	0.0	0.0	0.0
148	01/19/2012 11:15	0.0	0.0	0.0
149	01/19/2012 11:16	0.0	0.0	0.0
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152	01/19/2012 11:19	0.0	0.0	0.0
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154	01/19/2012 11:21	0.0	0.0	0.0
155	01/19/2012 11:22	0.0	0.0	0.0
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172	01/19/2012 11:39	0.0	0.0	0.0
173	01/19/2012 11:40	0.0	0.0	0.0
174	01/19/2012 11:41	0.0	0.0	0.0
175	01/19/2012 11:42	0.0	0.0	0.0
176	01/19/2012 11:43	0.0	0.0	0.0
177	01/19/2012 11:44	0.0	0.0	0.0
178	01/19/2012 11:45	0.0	0.0	0.0
179	01/19/2012 11:46	0.0	0.0	0.0
180	01/19/2012 11:47	0.0	0.0	0.0
181	01/19/2012 11:48	0.0	0.0	0.0
182	01/19/2012 11:49	0.0	0.0	0.0
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184	01/19/2012 11:51	0.0	0.0	0.0
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186	01/19/2012 11:53	0.0	0.0	0.0
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189	01/19/2012 11:56	0.0	0.0	0.0
190	01/19/2012 11:57	0.0	0.0	0.0
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192	01/19/2012 11:59	0.0	0.0	0.0
193	01/19/2012 12:00	0.0	0.0	0.0
194	01/19/2012 12:01	0.0	0.0	0.0
195	01/19/2012 12:02	0.0	0.0	0.0
196	01/19/2012 12:03	0.0	0.0	0.0

197	01/19/2012 12:04	0.0	0.0	0.0
198	01/19/2012 12:05	0.0	0.0	0.0
199	01/19/2012 12:06	0.0	0.0	0.0
200	01/19/2012 12:07	0.0	0.0	0.0
201	01/19/2012 12:08	0.0	0.0	0.0
202	01/19/2012 12:09	0.0	0.0	0.0
203	01/19/2012 12:10	0.0	0.0	0.0
204	01/19/2012 12:11	0.0	0.0	0.0
205	01/19/2012 12:12	0.0	0.0	0.0
206	01/19/2012 12:13	0.0	0.0	0.0
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209	01/19/2012 12:16	0.0	0.0	0.0
210	01/19/2012 12:17	0.0	0.0	0.0
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212	01/19/2012 12:19	0.0	0.0	0.0
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214	01/19/2012 12:21	0.0	0.0	0.0
215	01/19/2012 12:22	0.0	0.0	0.0
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222	01/19/2012 12:29	0.0	0.0	0.0
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233	01/19/2012 12:40	0.0	0.0	0.0
234	01/19/2012 12:41	0.0	0.0	0.0
235	01/19/2012 12:42	0.0	0.0	0.0
236	01/19/2012 12:43	0.0	0.0	0.0
237	01/19/2012 12:44	0.0	0.0	0.0
238	01/19/2012 12:45	0.0	0.0	0.0
239	01/19/2012 12:46	0.0	0.0	0.0
240	01/19/2012 12:47	0.0	0.0	0.0
241	01/19/2012 12:48	0.0	0.0	0.0
242	01/19/2012 12:49	0.0	0.0	0.0
243	01/19/2012 12:50	0.0	0.0	0.0
244	01/19/2012 12:51	0.0	0.0	0.0
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252	01/19/2012 12:59	0.0	0.0	0.0
253	01/19/2012 13:00	0.0	0.0	0.0
254	01/19/2012 13:01	0.0	0.0	0.0
255	01/19/2012 13:02	0.0	0.0	0.0
256	01/19/2012 13:03	0.0	0.0	0.0
257	01/19/2012 13:04	0.0	0.0	0.0
258	01/19/2012 13:05	0.0	0.0	0.0
259	01/19/2012 13:06	0.0	0.0	0.0
260	01/19/2012 13:07	0.0	0.0	0.0
261	01/19/2012 13:08	0.0	0.0	0.0
262	01/19/2012 13:09	0.0	0.0	0.0
263	01/19/2012 13:10	0.0	0.0	0.0
264	01/19/2012 13:11	0.0	0.0	0.0
265	01/19/2012 13:12	0.0	0.0	0.0

266	01/19/2012 13:13	0.0	0.0	0.0
267	01/19/2012 13:14	0.0	0.0	0.0
268	01/19/2012 13:15	0.0	0.0	0.0
269	01/19/2012 13:16	0.0	0.0	0.0
270	01/19/2012 13:17	0.0	0.0	0.0
271	01/19/2012 13:18	0.0	0.0	0.0
272	01/19/2012 13:19	0.0	0.0	0.0
273	01/19/2012 13:20	0.0	0.0	0.0
274	01/19/2012 13:21	0.0	0.0	0.0
275	01/19/2012 13:22	0.0	0.0	0.0
276	01/19/2012 13:23	0.0	0.0	0.0
277	01/19/2012 13:24	0.0	0.0	0.0
278	01/19/2012 13:25	0.0	0.0	0.0
279	01/19/2012 13:26	0.0	0.0	0.0
280	01/19/2012 13:27	0.0	0.0	0.0
281	01/19/2012 13:28	0.0	0.0	0.0
282	01/19/2012 13:29	0.0	0.0	0.0
283	01/19/2012 13:30	0.0	0.0	0.0
284	01/19/2012 13:31	0.0	0.0	0.0
285	01/19/2012 13:32	0.0	0.0	0.0
286	01/19/2012 13:33	0.0	0.0	0.0
287	01/19/2012 13:34	0.0	0.0	0.0
288	01/19/2012 13:35	0.0	0.0	0.0
289	01/19/2012 13:36	0.0	0.0	0.0
290	01/19/2012 13:37	0.0	0.0	0.0
291	01/19/2012 13:38	0.0	0.0	0.0
292	01/19/2012 13:39	0.0	0.0	0.0
293	01/19/2012 13:40	0.0	0.0	0.0
294	01/19/2012 13:41	0.0	0.0	0.0
295	01/19/2012 13:42	0.0	0.0	0.0
296	01/19/2012 13:43	0.0	0.0	0.0
297	01/19/2012 13:44	0.0	0.0	0.0
298	01/19/2012 13:45	0.0	0.0	0.0
299	01/19/2012 13:46	0.0	0.0	0.0
300	01/19/2012 13:47	0.0	0.0	0.0
301	01/19/2012 13:48	0.0	0.0	0.0
302	01/19/2012 13:49	0.0	0.0	0.0
303	01/19/2012 13:50	0.0	0.0	0.0
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309	01/19/2012 13:56	0.0	0.0	0.0
310	01/19/2012 13:57	0.0	0.0	0.0
311	01/19/2012 13:58	0.0	0.0	0.0
312	01/19/2012 13:59	0.0	0.0	0.0
313	01/19/2012 14:00	0.0	0.0	0.0
314	01/19/2012 14:01	0.0	0.0	0.0
315	01/19/2012 14:02	0.0	0.0	0.0
316	01/19/2012 14:03	0.0	0.0	0.0
317	01/19/2012 14:04	0.0	0.0	0.0
318	01/19/2012 14:05	0.0	0.0	0.0
319	01/19/2012 14:06	0.0	0.0	0.0
320	01/19/2012 14:07	0.0	0.0	0.0
321	01/19/2012 14:08	0.0	0.0	0.0
322	01/19/2012 14:09	0.0	0.0	0.0
323	01/19/2012 14:10	0.0	0.0	0.0
324	01/19/2012 14:11	0.0	0.0	0.0
325	01/19/2012 14:12	0.0	0.0	0.0
326	01/19/2012 14:13	0.0	0.0	0.0
327	01/19/2012 14:14	0.0	0.0	0.0
328	01/19/2012 14:15	0.0	0.0	0.0
329	01/19/2012 14:16	0.0	0.0	0.0
330	01/19/2012 14:17	0.0	0.0	0.0
331	01/19/2012 14:18	0.0	0.0	0.0
332	01/19/2012 14:19	0.0	0.0	0.0
333	01/19/2012 14:20	0.0	0.0	0.0
334	01/19/2012 14:21	0.0	0.0	0.0

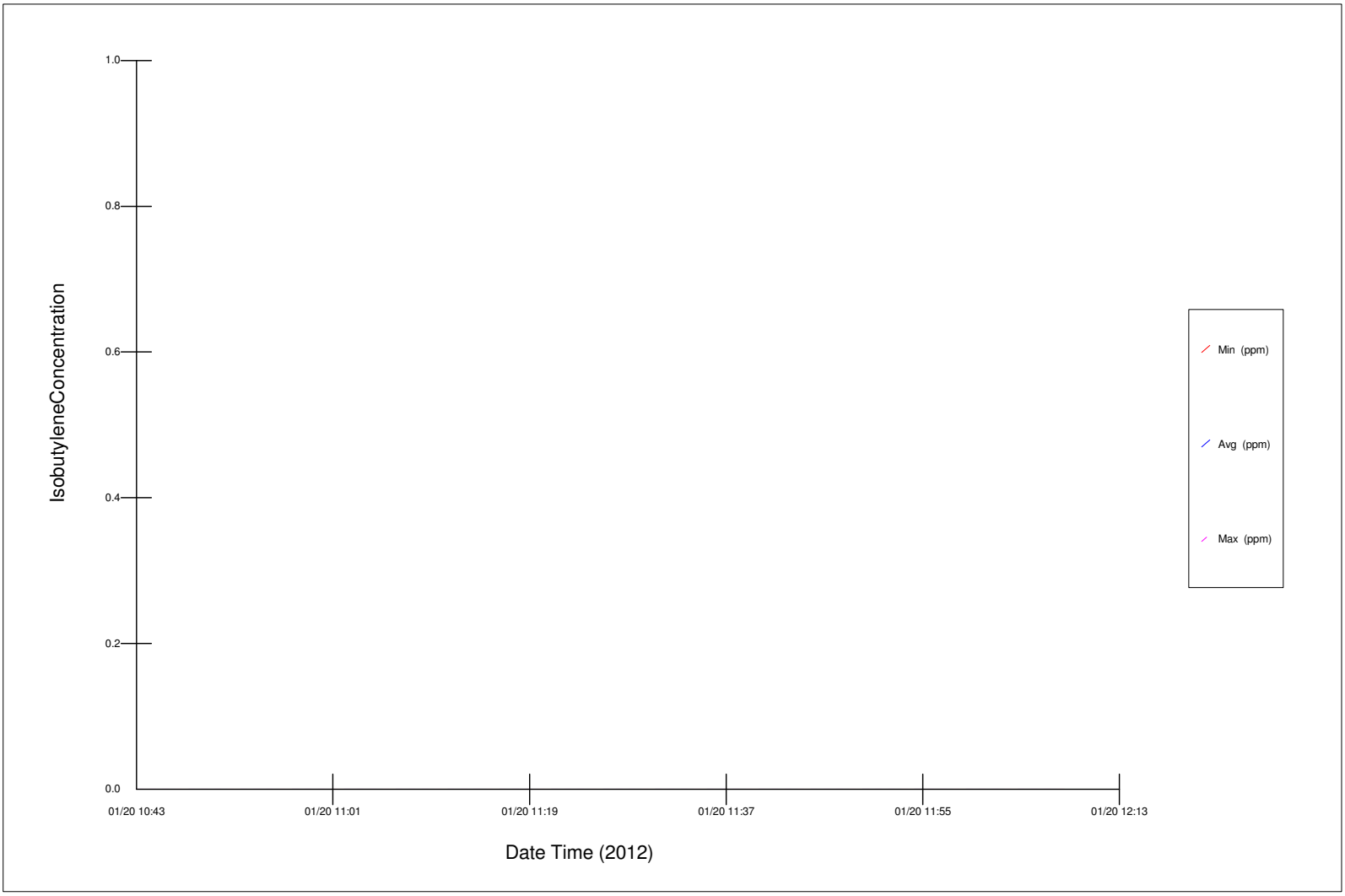
335	01/19/2012 14:22	0.0	0.0	0.0
336	01/19/2012 14:23	0.0	0.0	0.0
337	01/19/2012 14:24	0.0	0.0	0.0
338	01/19/2012 14:25	0.0	0.0	0.0
339	01/19/2012 14:26	0.0	0.0	0.0
340	01/19/2012 14:27	0.0	0.0	0.0
341	01/19/2012 14:28	0.0	0.0	0.0
342	01/19/2012 14:29	0.0	0.0	0.0
343	01/19/2012 14:30	0.0	0.0	0.0
344	01/19/2012 14:31	0.0	0.0	0.0
345	01/19/2012 14:32	0.0	0.0	0.0
346	01/19/2012 14:33	0.0	0.0	0.0
347	01/19/2012 14:34	0.0	0.0	0.0
348	01/19/2012 14:35	0.0	0.0	0.0
349	01/19/2012 14:36	0.0	0.0	0.0
350	01/19/2012 14:37	0.0	0.0	0.0
351	01/19/2012 14:38	0.0	0.0	0.0
352	01/19/2012 14:39	0.0	0.0	0.0
353	01/19/2012 14:40	0.0	0.0	0.0
354	01/19/2012 14:41	0.0	0.0	0.0
355	01/19/2012 14:42	0.0	0.0	0.0


1.0
0.8
0.6
0.4
0.2
0.0
IsobutyleneConcentration
01/20 08:48
01/20 08:50
01/20 08:52
01/20 08:54
01/20 08:56
01/20 08:58
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000060
Data Points: 10 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/19/2012 07:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/20/2012	08:48	0.0	0.0	0.0
2	01/20/2012	08:49	0.0	0.0	0.0
3	01/20/2012	08:50	0.0	0.0	0.0
4	01/20/2012	08:51	0.0	0.0	0.0
5	01/20/2012	08:52	0.0	0.0	0.0
6	01/20/2012	08:53	0.0	0.0	0.0
7	01/20/2012	08:54	0.0	0.0	0.0
8	01/20/2012	08:55	0.0	0.0	0.0
9	01/20/2012	08:56	0.0	0.0	0.0
10	01/20/2012	08:57	0.0	0.0	0.0

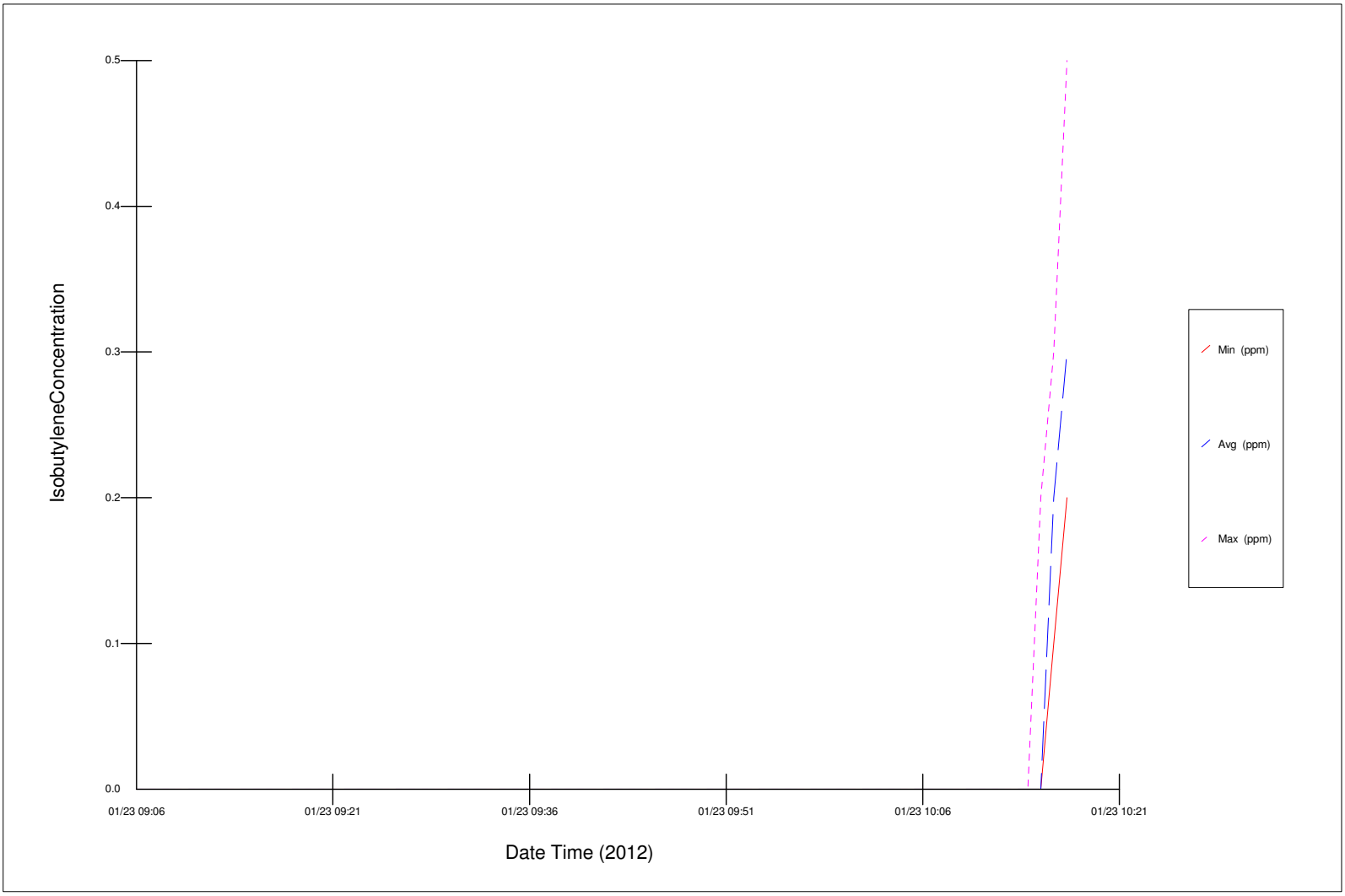

IsobutyleneConcentration
1.0
0.8
0.6
0.4
0.2
0.0
01/20 10:43
01/20 11:01
01/20 11:19
01/20 11:37
01/20 11:55
01/20 12:13
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000061
Data Points: 86 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/19/2012 07:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/20/2012	10:43	0.0	0.0	0.0
2	01/20/2012	10:44	0.0	0.0	0.0
3	01/20/2012	10:45	0.0	0.0	0.0
4	01/20/2012	10:46	0.0	0.0	0.0
5	01/20/2012	10:47	0.0	0.0	0.0
6	01/20/2012	10:48	0.0	0.0	0.0
7	01/20/2012	10:49	0.0	0.0	0.0
8	01/20/2012	10:50	0.0	0.0	0.0
9	01/20/2012	10:51	0.0	0.0	0.0
10	01/20/2012	10:52	0.0	0.0	0.0
11	01/20/2012	10:53	0.0	0.0	0.0
12	01/20/2012	10:54	0.0	0.0	0.0
13	01/20/2012	10:55	0.0	0.0	0.0
14	01/20/2012	10:56	0.0	0.0	0.0
15	01/20/2012	10:57	0.0	0.0	0.0
16	01/20/2012	10:58	0.0	0.0	0.0
17	01/20/2012	10:59	0.0	0.0	0.0
18	01/20/2012	11:00	0.0	0.0	0.0
19	01/20/2012	11:01	0.0	0.0	0.0
20	01/20/2012	11:02	0.0	0.0	0.0
21	01/20/2012	11:03	0.0	0.0	0.0
22	01/20/2012	11:04	0.0	0.0	0.0
23	01/20/2012	11:05	0.0	0.0	0.0
24	01/20/2012	11:06	0.0	0.0	0.0
25	01/20/2012	11:07	0.0	0.0	0.0
26	01/20/2012	11:08	0.0	0.0	0.0
27	01/20/2012	11:09	0.0	0.0	0.0
28	01/20/2012	11:10	0.0	0.0	0.0
29	01/20/2012	11:11	0.0	0.0	0.0
30	01/20/2012	11:12	0.0	0.0	0.0
31	01/20/2012	11:13	0.0	0.0	0.0
32	01/20/2012	11:14	0.0	0.0	0.0
33	01/20/2012	11:15	0.0	0.0	0.0
34	01/20/2012	11:16	0.0	0.0	0.0
35	01/20/2012	11:17	0.0	0.0	0.0
36	01/20/2012	11:18	0.0	0.0	0.0
37	01/20/2012	11:19	0.0	0.0	0.0
38	01/20/2012	11:20	0.0	0.0	0.0
39	01/20/2012	11:21	0.0	0.0	0.0
40	01/20/2012	11:22	0.0	0.0	0.0
41	01/20/2012	11:23	0.0	0.0	0.0
42	01/20/2012	11:24	0.0	0.0	0.0
43	01/20/2012	11:25	0.0	0.0	0.0
44	01/20/2012	11:26	0.0	0.0	0.0
45	01/20/2012	11:27	0.0	0.0	0.0
46	01/20/2012	11:28	0.0	0.0	0.0
47	01/20/2012	11:29	0.0	0.0	0.0
48	01/20/2012	11:30	0.0	0.0	0.0
49	01/20/2012	11:31	0.0	0.0	0.0
50	01/20/2012	11:32	0.0	0.0	0.0
51	01/20/2012	11:33	0.0	0.0	0.0
52	01/20/2012	11:34	0.0	0.0	0.0
53	01/20/2012	11:35	0.0	0.0	0.0
54	01/20/2012	11:36	0.0	0.0	0.0
55	01/20/2012	11:37	0.0	0.0	0.0
56	01/20/2012	11:38	0.0	0.0	0.0
57	01/20/2012	11:39	0.0	0.0	0.0
58	01/20/2012	11:40	0.0	0.0	0.0

59	01/20/2012 11:41	0.0	0.0	0.0
60	01/20/2012 11:42	0.0	0.0	0.0
61	01/20/2012 11:43	0.0	0.0	0.0
62	01/20/2012 11:44	0.0	0.0	0.0
63	01/20/2012 11:45	0.0	0.0	0.0
64	01/20/2012 11:46	0.0	0.0	0.0
65	01/20/2012 11:47	0.0	0.0	0.0
66	01/20/2012 11:48	0.0	0.0	0.0
67	01/20/2012 11:49	0.0	0.0	0.0
68	01/20/2012 11:50	0.0	0.0	0.0
69	01/20/2012 11:51	0.0	0.0	0.0
70	01/20/2012 11:52	0.0	0.0	0.0
71	01/20/2012 11:53	0.0	0.0	0.0
72	01/20/2012 11:54	0.0	0.0	0.0
73	01/20/2012 11:55	0.0	0.0	0.0
74	01/20/2012 11:56	0.0	0.0	0.0
75	01/20/2012 11:57	0.0	0.0	0.0
76	01/20/2012 11:58	0.0	0.0	0.0
77	01/20/2012 11:59	0.0	0.0	0.0
78	01/20/2012 12:00	0.0	0.0	0.0
79	01/20/2012 12:01	0.0	0.0	0.0
80	01/20/2012 12:02	0.0	0.0	0.0
81	01/20/2012 12:03	0.0	0.0	0.0
82	01/20/2012 12:04	0.0	0.0	0.0
83	01/20/2012 12:05	0.0	0.0	0.0
84	01/20/2012 12:06	0.0	0.0	0.0
85	01/20/2012 12:07	0.0	0.0	0.0
86	01/20/2012 12:08	0.0	0.0	0.0


0.5
0.4
0.3
0.2
0.1
0.0
IsobutyleneConcentration
01/23 09:06
01/23 09:21
01/23 09:36
01/23 09:51
01/23 10:06
01/23 10:21
Date Time (2012)
Min (ppm)
Avg (ppm)
Max (ppm)

Instrument: MiniRAE 2000 (PGM7600) Serial Number: 004811
User ID: 00000001 Site ID: 00000063
Data Points: 72 Gas Name: Isobutylene Sample Period: 60 sec
Last Calibration Time: 01/19/2012 07:57

Measurement Type:	Min(ppm)	Avg(ppm)	Max(ppm)
High Alarm Levels:	100.0	100.0	100.0
Low Alarm Levels:	50.0	50.0	50.0

Line#	Date	Time	Min(ppm)	Avg(ppm)	Max(ppm)
1	01/23/2012	09:06	0.0	0.0	0.0
2	01/23/2012	09:07	0.0	0.0	0.0
3	01/23/2012	09:08	0.0	0.0	0.0
4	01/23/2012	09:09	0.0	0.0	0.0
5	01/23/2012	09:10	0.0	0.0	0.0
6	01/23/2012	09:11	0.0	0.0	0.0
7	01/23/2012	09:12	0.0	0.0	0.0
8	01/23/2012	09:13	0.0	0.0	0.0
9	01/23/2012	09:14	0.0	0.0	0.0
10	01/23/2012	09:15	0.0	0.0	0.0
11	01/23/2012	09:16	0.0	0.0	0.0
12	01/23/2012	09:17	0.0	0.0	0.0
13	01/23/2012	09:18	0.0	0.0	0.0
14	01/23/2012	09:19	0.0	0.0	0.0
15	01/23/2012	09:20	0.0	0.0	0.0
16	01/23/2012	09:21	0.0	0.0	0.0
17	01/23/2012	09:22	0.0	0.0	0.0
18	01/23/2012	09:23	0.0	0.0	0.0
19	01/23/2012	09:24	0.0	0.0	0.0
20	01/23/2012	09:25	0.0	0.0	0.0
21	01/23/2012	09:26	0.0	0.0	0.0
22	01/23/2012	09:27	0.0	0.0	0.0
23	01/23/2012	09:28	0.0	0.0	0.0
24	01/23/2012	09:29	0.0	0.0	0.0
25	01/23/2012	09:30	0.0	0.0	0.0
26	01/23/2012	09:31	0.0	0.0	0.0
27	01/23/2012	09:32	0.0	0.0	0.0
28	01/23/2012	09:33	0.0	0.0	0.0
29	01/23/2012	09:34	0.0	0.0	0.0
30	01/23/2012	09:35	0.0	0.0	0.0
31	01/23/2012	09:36	0.0	0.0	0.0
32	01/23/2012	09:37	0.0	0.0	0.0
33	01/23/2012	09:38	0.0	0.0	0.0
34	01/23/2012	09:39	0.0	0.0	0.0
35	01/23/2012	09:40	0.0	0.0	0.0
36	01/23/2012	09:41	0.0	0.0	0.0
37	01/23/2012	09:42	0.0	0.0	0.0
38	01/23/2012	09:43	0.0	0.0	0.0
39	01/23/2012	09:44	0.0	0.0	0.0
40	01/23/2012	09:45	0.0	0.0	0.0
41	01/23/2012	09:46	0.0	0.0	0.0
42	01/23/2012	09:47	0.0	0.0	0.0
43	01/23/2012	09:48	0.0	0.0	0.0
44	01/23/2012	09:49	0.0	0.0	0.0
45	01/23/2012	09:50	0.0	0.0	0.0
46	01/23/2012	09:51	0.0	0.0	0.0
47	01/23/2012	09:52	0.0	0.0	0.0
48	01/23/2012	09:53	0.0	0.0	0.0
49	01/23/2012	09:54	0.0	0.0	0.0
50	01/23/2012	09:55	0.0	0.0	0.0
51	01/23/2012	09:56	0.0	0.0	0.0
52	01/23/2012	09:57	0.0	0.0	0.0
53	01/23/2012	09:58	0.0	0.0	0.0
54	01/23/2012	09:59	0.0	0.0	0.0
55	01/23/2012	10:00	0.0	0.0	0.0
56	01/23/2012	10:01	0.0	0.0	0.0
57	01/23/2012	10:02	0.0	0.0	0.0
58	01/23/2012	10:03	0.0	0.0	0.0

59	01/23/2012 10:04	0.0	0.0	0.0
60	01/23/2012 10:05	0.0	0.0	0.0
61	01/23/2012 10:06	0.0	0.0	0.0
62	01/23/2012 10:07	0.0	0.0	0.0
63	01/23/2012 10:08	0.0	0.0	0.0
64	01/23/2012 10:09	0.0	0.0	0.0
65	01/23/2012 10:10	0.0	0.0	0.0
66	01/23/2012 10:11	0.0	0.0	0.0
67	01/23/2012 10:12	0.0	0.0	0.0
68	01/23/2012 10:13	0.0	0.0	0.0
69	01/23/2012 10:14	0.0	0.0	0.0
70	01/23/2012 10:15	0.0	0.0	0.2
71	01/23/2012 10:16	0.1	0.2	0.3
72	01/23/2012 10:17	0.2	0.3	0.5

Attachment F

POST VCP

HEALTH AND SAFETY PLAN TEMPLATE
(TO BE USED BY CONTRACTORS AS A REFERENCE FOR THEIR OWN EMPLOYEE PLAN)

Site Name: Hunts Point Perimeter Site **Site Location:** Bronx, NY

HASP Preparer: Brian Montroy/Kevin McCarty/LMS **Preparation Date:** April 2005

APPROVALS:

Project Manager: Kevin McCarty/LMS Engineers

Safety Officer: John Guzewich/LMS Engineers

CONTRACTOR/ PERSONNEL:

On-Site Coordinator: To be named by the Contractor

On-Site Health and Safety Officer: To be named by the Contractor

SCOPE OF WORK (brief description of work plan and tasks to be accomplished):

To be assigned by others in the case future activities will breach the cover system at the site.

HAZARDOUS/SUBSTANCES (known or suspected, contaminated media, etc.):

Coal tar and/or purifier waste may be encountered at the site. Coal tar can be a solid or semi-liquid with a string npthalene/asphalt like odor. It generally contains a group of semi-volatile organic compounds (SVOC) referred to as polycyclic aromatic hydrocarbons (PAHs). Coal tar may also contain benzene, toluene, ethyl-benzene, and xylene (BTEX) compounds. Purifier waste is known to contain cyanide, other heavy metals, PAHs and BTEX and is often acidic.

HAZARD ASSESSMENT (toxic effects, including TLVs, IDLHs, reactivity, stability, flammability, and operational hazards with sampling, decontaminating, etc):

See the most current version of National Institute for Occupational Safety and Health (NIOSH), Guide to Chemical Hazards for compounds reported in the analytical tables for the **Interim**

Other hazards:

Contractor must evaluate work and conditions for any hazards not limited to chemical exposure

SITE WORK ZONES: (designate exclusion zone, contamination reduction zone and support zone)

Support zone – Dependant upon the work being performed, the support zone will consist of an area used to stage support vehicles and equipment.

Contamination reduction zone - Will be comprised of any area used to decontaminate equipment and personnel.

Exclusion Zone - Will consist of a limited area immediately where work is being performed and safety equipment or precautions are needed (i.e. hard hats, safety shoes, glasses, etc)

SITE ACCESS: (describe procedures to control site access)

Access will be dependant upon the work being performed.

MONITORING PROCEDURES (If required by the Safety Officer)

Monitoring the site for identity and concentration of contamination in exposed media:

The Contractor will have his Safety Officer assess the need for air monitoring such as :A photoionization detector (PID) to monitor for the presence of VOCs. A portable gas monitor (PGM) for the presence of flammable gas concentrations and hydrogen sulfide.

Medical monitoring procedures for evidence of personnel exposure i.e., analyses specific to site not covered in general annual physical:

Should be evaluated by the Safety officer in accordance with company policy

Personnel monitoring procedures:

Should be evaluated based on the work being performed.

DECONTAMINATION AND DISPOSAL

Decontamination Procedures (contaminated personnel, surfaces, materials, instruments, equipment, etc.):

All sampling equipment will be decontaminated using a cold water de-ionized water wash with a non-phosphate detergent. Personnel will wash with soap and water after work is completed. PPE will be decontaminated or disposed of after use.

Disposal Procedures (contaminated equipment, supplies, disposables, washwater):

Water used for decontamination will be discharged to the ground surface at the site. PPE will be disposed of in an appropriate manor.

EMERGENCY PROCEDURES

In event of personnel exposure (skin contact, inhalation, ingestion, specific procedures for specific chemicals):

Skin Contact - Wash with soap and water.

Inhalation - Remove to fresh air, monitor ABCs (Airway, Breathing and Circulation).

Ingestion - Call 911 and monitor ABCs.Skin Contact:

In event of personnel injury:

Check ABCs (Airway, breathing, and circulation). Perform first aid if required.

Contact local ambulance by calling 911 if professional help is required.

In event of potential or actual fire or explosion:

Evacuate to the site entrance. The HSO will account for all personnel before leaving the site.

The fire department will be contacted by calling 911.

In event of potential or actual ionizing radiation exposure:

Not applicable.

In event of environmental accident (spread of contamination outside sites):

Stop the spread of the chemical to the extent possible if the containment of the chemical may be performed safely.

Notify NYSDEC

Contact the fire department

Contact LMS (Jim Morrison, Karen Wright, or John Guzewich)

EMERGENCY SERVICES (complete here or have separate list available on-site)

Emergency Medical Facility (include map or written description of route to hospital)

	Location	Telephone
Hospital:	St. Barnabus Hospital 1967 Turnbull Avenue Bronx, New York	(718) 409-2633

Directions:

From site in Bronx:

Northwest of Food Center Drive and turn right onto Halleck St.
Go straight onto Edgewater Road.
Turn right onto Bruckner Blvd.
Take I-278 East/Bruckner Exp. towards the Throgs Neck Bridge.
Exit at White Plains Rd/Castle Hill Ave.
Merge onto Bruckner Blvd.
Turn right onto White Plains Rd.
Turn left onto Turnbull Ave.

See Figure 2 for route to Hospital.

Ambulance:	911
Fire Department	911
Police Department	911
Poison Control Center	(800) 336-6997

PERSONNEL POTENTIALLY EXPOSED TO HAZARDOUS SUBSTANCES
(As Applicable)

Personnel Authorized to Enter Site (specific conditions of site would preclude most LMS trained persons from entering site and would allow only certain personnel, list here)

Not applicable.

ALTERNATIVE WORK PRACTICES

(Describe alternative work practices or instruments not specified in this form. Indicate work practices specified in the chapter for which proposed alternative work practices will serve as substitute).

Not applicable.

TASK-SPECIFIC LEVEL OF PROTECTION AND ACTION LEVELS

(Attach table including specific description of protective gear and action levels or downgrade LOP)

See Table 2.

SITE MAP

(Attach a site map. Map should be properly scaled and keyed to local landmarks).

See Figure 1.

TRAINING

(Provide description of minimum training, reference OSHA Sections).

29 CFR 1910.120 e(3)
29 CFR 1910.120 e(4)
Standard first aid and adult CPR

AFFIDAVIT

All personnel who enter site must sign attached affidavit. LMS personnel must also read and comply with LMS' generic HASP.

AFFIDAVIT

I, _____ , (name) of _____

(company name) have read the Health and Safety Plan (HASP) for the _____

(site description and project description). I have also read the LMS generic HASP. I agree to conduct all on-site work in conformity with the requirements of both HASPs. In addition, I acknowledge that failure to comply with the designated procedures in the Health and Safety Plans may lead to my removal from the site.

Signed _____

Date _____

Attachment G

Stockpile Tracking Form

Project Name:

Client:

HDR|LMS Personel:

Stockpile ID #

Date Started:

Date Completed:

Stockpile Volume:

Material Type:

Visual Inspection:

PID Reading:

Reused: ☐

Area of Origin:

Reuse Area:

Disposal: ☐

Disposal Facility:

Date Sampled:

Analytical Parameters:

Analytical Laboratory(s):

Samples Picked Up

Results Revieved

Date Loaded

Imported Soil Acceptance Manifest

Project Name:

Client:

HDR Personel:

Soil Source and Permit #

Date Recieved:

Volume Received (# of trucks):

Material Type:

Analytical Laboratory(s):

Analytical Parameters:

Tickets and source permits are attached to this document.

Accepting Engineer (printed) (signature) (date)

*** All volumes are based on truck tickets and should be considered estimates

Attachment H

New York State Department of Health
Generic Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind perimeter of each designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including residences and businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of investigative and remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

The generic CAMP presented below will be sufficient to cover many, if not most, sites. Specific requirements should be reviewed for each situation in consultation with NYSDOH to ensure proper applicability. In some cases, a separate site-specific CAMP or supplement may be required. Depending upon the nature of contamination, chemical-specific monitoring with appropriately-sensitive methods may be required. Depending upon the proximity of potentially exposed individuals, more stringent monitoring or response levels than those presented below may be required. Special requirements will be necessary for work within 20 feet of potentially exposed individuals or structures and for indoor work with co-located residences or facilities. These requirements should be determined in consultation with NYSDOH.

Reliance on the CAMP should not preclude simple, common-sense measures to keep VOCs, dust, and odors at a minimum around the work areas.

Community Air Monitoring Plan

Depending upon the nature of known or potential contaminants at each site, real-time air monitoring for volatile organic compounds (VOCs) and/or particulate levels at the perimeter of the exclusion zone or work area will be necessary. Most sites will involve VOC and particulate monitoring; sites known to be contaminated with heavy metals alone may only require particulate monitoring. If radiological contamination is a concern, additional monitoring requirements may be necessary per consultation with appropriate NYSDEC/NYSDOH staff.

Continuous monitoring will be required for all <u>ground intrusive</u> activities and during the demolition of contaminated or potentially contaminated structures. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling, test pitting or trenching, and the installation of soil borings or monitoring wells.

Periodic monitoring for VOCs will be required during non-intrusive activities such as the collection of soil and sediment samples or the collection of groundwater samples from existing monitoring wells. "Periodic" monitoring during sample collection might reasonably consist of taking a reading upon arrival at a sample location, monitoring while opening a well cap or overturning soil, monitoring during well baling/purging, and taking a reading prior to leaving a sample location. In some instances, depending upon the proximity of potentially exposed individuals, continuous monitoring may be required during sampling activities. Examples of such situations include groundwater sampling at wells on the curb of a busy urban street, in the midst of a public park, or adjacent to a school or residence.

VOC Monitoring, Response Levels, and Actions

Volatile organic compounds (VOCs) must be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) on a **continuous** basis or as otherwise specified. Upwind concentrations should be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work should be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment should be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment should be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds 5 parts per million (ppm) above background for the 15-minute average, work activities must be temporarily halted and monitoring continued. If the total organic vapor level readily decreases (per instantaneous readings) below 5 ppm over background, work activities can resume with continued monitoring.

- If total organic vapor levels at the downwind perimeter of the work area or exclusion zone persist at levels in excess of 5 ppm over background but less than 25 ppm, work activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.

- If the organic vapor level is above 25 ppm at the perimeter of the work area, activities must be shutdown.

All 15-minute readings must be recorded and be available for State (DEC and DOH) personnel to review. Instantaneous readings, if any, used for decision purposes should also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations should be monitored **continuously** at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring should be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment must be equipped with an audible alarm to indicate exceedance of the action level. In addition, fugitive dust migration should be visually assessed during all work activities.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area.

- If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

All readings must be recorded and be available for State (DEC and DOH) personnel to review.

June 20, 2000

H:\Southern\gCAMPr1.doc