



Pennsylvania Department of Environmental Protection

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February 4, 2009

Waste, Air, and Radiation Management

717-772-2725

Docket ID No. EPA-HQ-OAR-2002-0009
Air and Radiation Docket
U.S. Environmental Protection Agency
Mailcode: 6102T
1200 Pennsylvania Avenue, NW
Washington, D.C. 20460

Re: Proposed Notice of Reconsideration and Request for Public Comment on the National Emission Standards for Halogenated Solvent Cleaning, 73 Fed. Reg. 62384, October 20, 2008. Docket ID No. EPA-HQ-OAR-2002-0009

Dear Sir or Madam:

The Commonwealth of Pennsylvania, Department of Environmental Protection (Department) appreciates the opportunity to submit comments on the Proposed Notice of Reconsideration and Request for Public Comment on the National Emission Standards for Halogenated Solvent Cleaning proposed by the U.S. Environmental Protection Agency ("EPA") on October 20, 2008 (73 Fed. Reg. 62384). As more fully explained below, the Department supports EPA's proposal of a 60,000 kg/yr methylene chloride ("MC") equivalent limit which would be applicable to sources associated with the general population of halogenated solvent cleaning machines used by facilities that manufacture narrow tubing. However, there is data to suggest that certain specialty facilities that manufacture narrow tubing such as Accellant may not be able to meet the proposed cap. In the event that the owners or operators of a facility are unable to meet the proposed cap, the Department proposes that under either Option 2 or 3, EPA add a provision which states that facilities in the narrow tube industry that exceed the 60,000 kg/yr MC equivalent hazardous air pollutant ("HAP") emissions limit would have to achieve 80 percent overall control efficiency for their units and be required to do a site-specific risk assessment to ensure that any residual emissions are at an acceptable risk level.

Statutory and Regulatory Background

The MACT Process under the Clean Air Act

Section 112 of the CAA establishes the regulatory process to address emissions of HAPs from stationary sources. 42 U.S.C. § 7412. In accordance with Section 112(c) of the CAA, EPA identifies categories and subcategories of sources emitting one or more of the HAPs listed under Section 112(b) of the CAA. 42 U.S.C. §§ 7412(c) and (b). Section 112(d) of the CAA then

requires EPA to promulgate national technology-based emission standards for each category of major sources that emits or has the potential to emit any single HAP at a rate of ten tons or more per year, or any combination of HAPs at a rate of 25 tons or more per year, as well as for certain area sources emitting less than those amounts. 42 U.S.C. § 7412(d). For major sources, these technology-based standards must reflect the maximum reduction of HAPs achievable (after considering cost, energy requirements, and non-air health and environmental impacts) and are commonly referred to as maximum achievable control technology ("MACT") standards. See 42 U.S.C. § 7412 (d)(2).

Section 112(d)(6) of the CAA requires EPA to review the CAA Section 112(d) standards and to revise them "as necessary, taking into account developments in practices, processes and control technologies," no less frequently than every 8 years. 42 U.S.C. § 7412 (d)(6).

The residual risk review is described in Section 112(f) of the CAA. 42 U.S.C. § 7412 (f). In March of 1999, EPA prepared its Residual Risk Report to Congress, (EPA-453/R-99-001), as required under Section 112(f)(1), which discussed, among other things, methods of calculating risk posed by sources after implementation of the MACT standards, the public health significance of those risks, the means and costs of controlling them, actual health effects to persons in proximity to emitting sources, and recommendations as to legislation regarding such remaining risk. Because Congress did not act on any of the recommendations in the report, the CAA provisions triggered the second stage of the standard-setting process - the residual risk phase.

Section 112(f)(2) of the CAA requires EPA to determine whether additional standards are "required in order to provide an ample margin of safety to protect public health." 42 U.S.C. § 7412 (f)(2). EPA is required to promulgate residual risk standards for the source category (or subcategory) as necessary to provide an ample margin of safety, if the MACT standards for a HAP "classified as a known, probable, or possible human carcinogen do not reduce lifetime excess cancer risks to the individual most exposed to emissions from a source in the category or subcategory to less than 1-in-a-million." *Id.* EPA developed a risk management framework for cancer risk in response to the court decision in *Natural Resources Defense Council, Inc. v. EPA*, 824 F.2d 1146, D.C. Cir., 1987. See National Emission Standards for Hazardous Air Pollutants; Benzene Emissions from Maleic Anhydride Plants, Ethylbenzene/Styrene Plants, Benzene Storage Vessels, Benzene Equipment Leaks, and Coke By-product Recovery Plants, ("Benzene Rule") 54 Fed. Reg. 38044, September 14, 1989. See also 42 U.S.C. § 7412 (f)(2)(B) (where Congress codified this September 14, 1989 benzene rule in the CAA). See also *Natural Resources Defense Council, Inc. v. EPA*, 529 F.3d. 1077, (D.C. Cir. 2008) (where Section 112(f)(2)(B) expressly incorporates EPA's interpretation of the Clean Air Act from the Benzene rule).

The 1994 MACT Rule

On December 2, 1994, EPA promulgated national emission standards for halogenated solvent cleaning and required existing sources to comply with these national emission standards by December 2, 1996. See 59 Fed. Reg. 61805. The 1994 MACT rule requires batch vapor solvent cleaning machines and in-line solvent cleaning machines to meet emission standards

reflecting the application of the MACT for major and area sources, where area source batch cold cleaning machines are required to achieve generally available control technology. The rule regulates the emissions of the following halogenated HAP solvents: methylene chloride ("MC"); trichloroethylene ("TCE"); perchloroethylene ("PCE"); 1,1,1-trichloroethane ("TCA"); carbon tetrachloride ("CT"); and chloroform.

The 1994 MACT standard includes multiple alternatives to allow owners or operators maximum compliance flexibility. These alternatives include: control equipment standards; idling-mode emissions standards; and overall emission standards. The halogenated solvent cleaning national emission standard of hazardous air pollutants ("NESHAP") was estimated to reduce nationwide emissions of HAPs from halogenated solvent cleaning machines by 85,300 tons per year or 63 percent by 1997 compared to the emissions that would result in the absence of the standards.

The 2006 Residual Risk Proposal

On August 17, 2006, EPA proposed to revise standards to limit emissions of MC, PCE, and TCE from existing and new halogenated solvent cleaning machines. *See* 71 Fed. Reg. 47669. Under this proposal, and in addition to discussing the health effects of MC, PCE, TCA, CT, and chloroform, EPA found acute and chronic inhalation exposure to TCE can affect the human central nervous system, with symptoms such as dizziness, headaches, confusion, euphoria, facial numbness, and weakness. EPA found that liver, kidney, immunological, endocrine, and developmental effects have also been reported in humans. Acute effects may occur at or above 1-hour exposures of 700 mg/m³. California EPA ("CalEPA") estimated that no adverse non-cancer effects are likely in human populations chronically exposed at or below 0.6 mg/m³. Animal studies have reported statistically significant increases in kidney, lung, liver, and testicular tumors. EPA classified TCE in Group B2/C, an intermediate between a probable and possible human carcinogen, when assessed under the previous 1986 Cancer Guidelines, but this classification has been withdrawn. CalEPA derived a cancer unit risk exposure ("URE") of 2.0×10^{-6} (ug/m³)-1 for TCE, which EPA used for its cancer risk assessment.

Under the proposed rule EPA then evaluated the remaining risk to public health and the environment, under Section 112(f), following implementation of the technology-based rule and proposed more stringent standards in order to protect public health with an ample margin of safety. The proposed standards were expected to provide further reductions of MC, PCE, and TCE beyond the 1994 standards through application of a facility-wide total MC, PCE, and TCE emission standard. Under the proposed standards, the requirements for all new and existing, major and area sources were the same. In addition to the MACT standard, the proposed revisions would require each facility to comply with a facility-wide solvent emission limit. The proposed rule would require the owner or operator of each facility to ensure that their facility-wide solvent emissions from all halogenated solvent cleaning activities are less than or equal to the solvent emission limits specified in two proposed options that EPA chose that achieve an ample margin of safety. The co-proposed options set facility-wide emission limits that are specific to reducing MC, TCE, and PCE emissions from halogenated solvent cleaning facilities and provide an ample margin of safety. Option 1 limits facility-wide emissions of PCE, TCE and MC to 40,000 kg/yr MC-equivalent. Option 2 limits facility-wide emissions of PCE, TCE

and MC to 25,000 kg/yr MC-equivalent. EPA's review of the data determined that these limits could be achieved.

The 2006 Notice of Data Availability

On December 14, 2006, EPA issued a Notice of Data Availability ("NODA") in support of the proposed rule published on August 17, 2006. *See* 71 Fed. Reg. 75182. This NODA addressed new data and information that EPA received concerning the unique nature and size of the degreasing machines used by the narrow tubing manufacturing facilities and others. The new data and information that formed the basis of this NODA related to the ability of facilities to meet the proposed facility-wide emission limits, the cost impacts associated with facilities implementing the proposed facility-wide emission limits, and the time frame needed for facilities to comply with the proposed facility-wide emission limits. As part of this NODA, EPA made available new information and data provided by, among others, the narrow tube industry on the technical infeasibility of achieving the degree of emissions reduction projection by EPA.

The 2007 Final Rule

On May 3, 2007, EPA promulgated a facility-wide emission limit of 60,000 kg/yr MC equivalent (or 14,100 kg/yr for TCE only) applicable to all existing halogenated solvent cleaning machines with the exception of halogenated solvent cleaning machines used by the narrow tube industry, continuous web cleaning, aerospace manufacturing and maintenance facilities, and military depot maintenance facilities. *See* 72 Fed. Reg. 25138. Military depot maintenance facilities have to meet a facility-wide emission limit of 100,000 kg/yr, (or 23,500 kg/yr for TCE only) while the three remaining industries are exempt from any facility-wide emission limit. However, the requirements of the 1994 NESHAP and its subsequent amendments remain applicable to these facilities, including the narrow tube industry.

Subsequent Developments

On May 3, 2007, the Department filed a petition for review in the U.S. Court of Appeals for the D.C. Circuit challenging the narrow tube industry exemption as contrary to the provisions of the federal Clean Air Act.¹ Moreover, on June 13, 2007, the Department filed a petition with EPA requesting that the agency reconsider that portion of the rule which exempts the narrow tube industry from further regulation. On October 20, 2008, EPA published a notice of reconsideration in the Federal Register.

TCE Related Activities in Pennsylvania

On April 1, 2004, the Department conducted ambient air monitoring in Collegeville, Pennsylvania at a soccer field located on Ursinus College property. The Department was especially interested in the ambient air concentrations of TCE for two reasons: historic groundwater contamination in the area due to TCE, and nearby sources that emit TCE into the air. The monitoring showed high levels of TCE in the air. However, the monitoring did not identify specific sources of TCE. Additional monitoring sites were established in Trappe and

¹ *Commonwealth of Pennsylvania, Department of Environmental Protection v. EPA*, No. 07-1129 (D.C. Cir.).

Evansburg, Pennsylvania. The annual average TCE concentrations in 2005 at the Trappe and Evansburg sites were 0.26 parts per billion volume ("ppbv") and 0.14 ppbv, respectively. In comparison, most other Pennsylvania sites in 2005 were near or below the 0.04 ppbv detection limit. See *Collegetown Area Air Monitoring Report*, January 19, 2007. (Attached as Enclosure A.) There are several narrow-tube facilities located in this area including Accellent, Inc. (located in Trappe, Pennsylvania) and Superior Tube Co. (located in Lower Providence Township).

The highest concentrations for TCE in 2005 were measured at the Trappe and Evansburg sites compared to the other sites in Pennsylvania where the Department conducted the same air toxic monitoring. TCE was detected 82 percent of the time in Trappe and 76 percent of the time in Evansburg compared to the other sites where TCE was detected 11 percent of the time, on average. The Trappe sampling site is 1.44 miles from Accellent, which emits approximately 58.4 tons of TCE per year; and that the Evansburg sampling site is 1.35 miles from Superior Tube, which emits approximately 68.8 tons of TCE per year. Based on the monitoring data identified in the Collegetown report, the Department worked closely with the two area facilities that emit TCE - Accellent and Superior Tube - to develop voluntary TCE emission reduction strategies.

The Department met with Superior Tube on November 17, 2006, regarding the monitoring results, and asked the company to consider voluntary emission reductions of TCE. At a follow-up meeting on January 17, 2007, Superior Tube provided a tentative list of projects it felt it could implement within the next 6-12 months. Superior Tube committed to make a 30 percent reduction in TCE emissions within the first year, and a 60 percent reduction within the next few years. After the first year of effort, Superior Tube exceeded expectations by reducing TCE emissions by approximately 60 percent on an annualized basis beginning in 2008. These reductions were the result of reformulating its lubricant (replacing TCE with n-propyl bromide), and from consolidating degreasing operations. On February 12, 2008, Superior Tube submitted a minor operating permit modification to use n-propyl bromide ("nPB") in its large vapor degreaser in lieu of TCE. However, the company is retaining the right to use TCE in its operating permit just in case there are problems. Superior Tube will be required to notify the Department in advance if it should decide to switch back to TCE. On May 1, 2008, the Department issued a modified operating permit to Superior Tube which makes all of its TCE emission reduction measures enforceable. (Attached as Enclosure B.)

The Department met with Accellent on December 1, 2006, regarding the monitoring results and asked the company to consider voluntary emission reductions of TCE. At a follow-up meeting on January 31, 2007, Accellent indicated that it would install carbon adsorption devices ("CAD") on its two large vapor degreasers in approximately one year at a cost of approximately \$2.25 million. While the vendor only guaranteed a 35 percent reduction in emissions, the Department generally sees much higher emission reductions at other facilities using this technology. The first CAD began operating in early October 2007. Accellent is getting an approximate 75 percent overall control efficiency from this unit. The second CAD was installed in February 2008, and began operating in March 2008. Accellent is getting an approximate 35 percent overall control efficiency from this unit, and is planning to make some changes to the roof in order to improve the capture efficiency. The Department is currently

working with Accellent to modify its operating permit to incorporate requirements related to the operation and maintenance of the CADs.

Since the implementation of the TCE emission reduction strategies, results show significant improvements in air quality in the Collegeville area. The 2008 TCE value for the Evansburg sampling site was 0.03 ppbv. This is a 79 percent reduction from the 2005 measured 0.03 ppbv concentration. The Department attributes this ambient concentration improvement to the TCE emission reduction strategies implemented by Superior Tube. *See* Evansburg State Park Raw Data. (Attached as Enclosure C.) The Department has seen similar improvement at the Collegeville site.² The 2008 TCE value for the Collegeville site went from 0.26 ppbv to 0.08 ppbv, which is a 70 percent reduction from 2005. The Department attributes this ambient concentration improvement to the TCE emission reduction strategies implemented by Accellent. *See* Collegeville and Trappe Raw Data (Attached as Enclosures D and E.)

The following chart, which is based on the data from Exhibits C, D, and E, demonstrates the significant reductions in ambient concentration levels achieved in the Collegeville area since the implementation of TCE control measures at the Accellent and Superior Tube facilities. For example, TCE emissions from the Evansburg site alone were reduced by 79 percent. Since the implementation of cost-effective controls at the above facilities TCE emissions in the Collegeville are now in line with other sites throughout Pennsylvania.

Site	TCE Avg (ppbv)			
	2005	2006	2007 ^a	2008 ^b
Arendtsville	0.02	0.02	0.03	0.01
Chester	0.03	0.03	0.06	0.03
Collegeville	-	-	0.75 ^c	0.08
Erie	0.02	0.02	0.03	0.01
Evansburg	0.14	0.12	0.07	0.03
Lancaster	0.02	0.02	0.03	0.02
Lewisburg	0.02	0.03	0.04	0.03
Marcus Hook	0.03	0.02	0.04	0.01
Pottstown	0.04	0.05	-	-
Reading	-	-	-	0.02
Spring City	-	-	-	0.04
Swarthmore	0.03	0.03	0.03	0.01
Trappe	0.26	0.22	0.25	-

^a Dates for 2007: Evansburg 1/1-12/31, Trappe 1/1-5/12, Collegeville 5/18-12/31

^b Data from the first six months of 2008 only. Data is therefore DRAFT.

^c One sample, at 18 ppbv, is skewing average.

² The monitors were located at the Trappe site from 2005, 2006, 2007, and January through May 2008. The monitors needed to be relocated to Collegeville from May through December of 2008. Both the Trappe and Collegeville site were located directly downwind of Accellent.

In addition to Accellent and Superior Tube, other narrow tube facilities in Pennsylvania have made significant strides in reducing TCE emissions. Tube Methods in Bridgeport, Pennsylvania, another narrow tube manufacturer, until recently emitted approximately 20 tons of TCE annually. They now use nPB as a substitute to TCE and no longer have any TCE emissions at the facility. On February, 5, 2008, Tube Methods submitted a minor operating permit modification to use n propyl bromide in its large vapor degreaser in lieu of TCE. However, the company is retaining the right to use TCE in its operating permit just in case there are problems. Tube Methods will be required to notify the Department in advance if it should decide to switch back to TCE. On April 3, 2008, the Department issued a modified operating permit to Tube Methods which makes all of its TCE emission reduction measures enforceable. (Attached as Enclosure F.)

Salem Tube near Greenville, Pennsylvania is a narrow tube manufacturer which recently installed a vacuum-to-vacuum system. The plan approval for installation and operation of this system predicts expected TCE emissions to be reduced from 58.6 tons per year to about 200-300 lbs. per year. A plan approval for this technology was issued December 12, 2007. (Attached as Enclosure G.) The new vacuum cleaning and degreasing machine is manufactured by EMO, a European company, model number VAIOS SV (Top-loader). The unit has a production capacity of one load equivalent to 4000 pounds of pipe every 30 to 40 minutes. The maximum operating schedule is 24 loads per day, 168 loads per week and 8,736 loads/17,472 tons of pipe per year. The holding/work chamber solvent capacity is 1902 gallons. The work chamber is 14m by 0.78 m (46' by 2.56') with a surface area of 10.92m² (117.76 ft²). The entire cleaning and degreasing operation is conducted under negative pressure. The remainder of the operation such as distillation and filtration will be conducted in a closed loop system.

Department Recommendations

Based on the Department's experience with the narrow tube industry in Pennsylvania, the Department agrees with EPA's assessment that the owners and operators of halogenated solvent cleaning machines are capable of achieving either of the August 17, 2006 co-proposed limits of 25,000 kg/yr or 40,000 kg/yr MC equivalent limits. *See* 73 Fed. Reg. at 62397. As previously noted, control measures adopted by Accellent, Superior Tube, and Salem Tube, which include CADs, vacuum-to-vacuum machines, and consolidating operations have had a measured impact in reducing TCE emissions from their halogenated solvent cleaning operations. Moreover, the Department agrees with EPA's assertion that these control measures for existing sources were implemented within a proposed two-year compliance timeframe. *Id.* Consequently, the Department agrees that the proposed two-year compliance deadline is appropriate for this industry.

In addition, switching to nPB as a non-HAP solvent has also been used as a compliance technique in Pennsylvania at Superior Tube and Tube Methods with no reported adverse health effects. In evaluating nPB in a specific use under the Significant New Alternative Policy or SNAP program, EPA evaluated the worst-case level of nPB emissions. *See* 73 Fed. Reg. at 62401. The agency noted that even though this worst-case emission level is higher, by at least a factor of 4, than the highest-emitting facility in the halogenated solvents category, the worst-case impact estimated under the SNAP program is still substantially below, by more than a factor of

10, the derived threshold for non-cancer effects. This led EPA to conclude that the substitution of nPB for TCE and/or MC in halogenated solvent cleaners should not pose any health risks to the general population. *Id.* at 62401. Therefore, the Department believes, and concurs with the EPA's assessment, that the techniques and technologies employed by Pennsylvania facilities may be used to meet the proposed 60,000 kg/yr MC equivalent limit for the entire narrow tube industry. *Id.* at 62397.

The Department strongly urges EPA not to adopt Option 1, which would exempt the narrow tube industry from the proposed 60,000 kg/yr MC equivalent limit and would merely readopt the 1994 NESHAP under CAA Sections 112(d)(6) and (f)(2) for that industry. *See* 73 Fed. Reg. at 62403. Given the fact that EPA concludes that the narrow tube industry has demonstrated that it can continue to cost-effectively reduce TCE emissions through such techniques and technologies like CAD, vacuum-to-vacuum, solvent substitution, and improved work practices and manufacturing process changes, finalizing Option 1 for the narrow tube industry would be contrary to the facts as set forth by the agency and would be viewed as an arbitrary selection. *Id.* at 62401. Moreover, the Department does not agree that this option provides an ample margin of safety consistent with the Benzene framework. As EPA notes in its "ample margin of safety" rationale, additional regulation of the narrow tube industry will further reduce emissions, the maximum individual risk ("MIR"), and cancer incidence. *Id.* at 62402.

Under Option 1, the total HAP emissions would be reduced by 1,681 tons per year. *See* 73 Fed. Reg. at 62403. In addition about 82 facilities and 98 halogenated solvent cleaning machines would be affected. Furthermore, when Option 1 is applied to the facilities in the 2002 National Emissions Inventory (NEI) database, EPA estimates that the MIR decreases to about 50-in-1 million with an estimated reduction in cancer incidence of about 0.19 cases annually, with an annualized cost savings of \$1.3 million, or a cost savings of about \$822 per ton. Conversely, when Option 2, which subjects the narrow tube industry to the proposed 60,000 kg/yr MC equivalent limit, is applied the MIR decreases to about 30-in-1 million with an estimated reduction in cancer incidence to about 0.20 cases annually, and annualized costs of \$1.6 million, or annual costs of about \$615 per ton. *Id.* It is clear that based on the EPA analysis that applying the proposed 60,000 kg/yr MC equivalent limit to the narrow tube industry is cost-effective and results in additional public health protection. In addition, EPA must take into account the data that the Department submitted that shows ambient air concentrations of TCE and exposure levels have been significantly reduced when controls and techniques were implemented by Superior Tube and Accellent. *See* Enclosures C, D, and E. Therefore, the Department believes that further regulation of the narrow tube industry is appropriate.

The incremental annualized cost of control options 1 and 2 is about \$3 million. *See* 73 Fed. Reg. at 62403. The incremental emissions reduced from Option 1 to Option 2 are 920 tons, which is about \$3,200 per ton per year in the incremental cost-effectiveness between Options 1 and 2. The incremental cancer incidence reduction between options 1 and 2 is 0.01. Moreover, the incremental cost-effectiveness/cancer case avoided is nearly \$293 million. Based on this EPA analysis, the Department believes that the incremental reductions, cost-effectiveness, and cancers avoided demonstrates that regulating the narrow tube industry under the proposed 60,000 kg/yr MC equivalent limit to the narrow tube industry would result in additional public health protection and is cost-effective. Based on the Department's own experience with the narrow

tube industry in Pennsylvania, as soon as cost effective controls and techniques were implemented ambient concentrations of TCE markedly improved. *See* Enclosures C, D and E. Consequently, based on EPA's own analysis, the ambient data submitted by the Department, and the cost-effective controls and techniques implemented by the Pennsylvania narrow tube industry to reduce TCE emissions from their halogenated solvent cleaning machines, EPA should finalize either Option 2 or 3, which would apply the 60,000 kg/yr MC equivalent limit to the narrow tube industry.

Either Option 2 or 3 would have the effect of reducing TCE emissions from the narrow tube industry in a cost-effective manner that would protect public health and the environment. However, between these two options, Option 3 would be more protective of public health and the environment, since it captures a larger number of source categories than Option 2. Under both options, the MIR decreases to about 30-in-1 million. *Id.* at 62403 and 62404. However, Option 3 reduces cancer incidences to about 0.23, while Option 2 reduces cancer incidences to about 0.20. *Id.* Additionally, the incremental emissions reduced between the two options is 587 tons. *Id.* Consequently, Option 3 is the preferred approach since it is more protective of public health and the environment, and the Department recommends its adoption.

Data made available to the Department shows that most narrow tubing facilities are able to meet the proposed cap of 60,000 kg/yr MC equivalent. As a result, the Department concurs with EPA's assessment that technologies like CADs, and vacuum-to-vacuum, and techniques like operations consolidation and solvent substitution may be used by the narrow tube industry to comply with the emission limit of 60,000 kg/yr MC equivalent. However, there is also data available to suggest that certain specialty facilities such as Accellent being able to employ retrofit technologies such as CAD may not be able to meet the proposed cap. Thus, the Department proposes that under either Option 2 or 3, EPA add a provision which states that facilities in the narrow tube industry that exceed the 60,000 kg/yr MC equivalent HAP emissions would have to achieve 80 percent overall control efficiency for those units and be required to do a site-specific risk assessment to ensure that any residual emissions are at an acceptable risk level. This recommendation is consistent with the provision under Option 3 which allows the facilities that use continuous web cleaning machines that exceed the proposed the 60,000 kg/yr MC equivalent HAP emissions would have to achieve 80 percent overall control efficiencies for those units.

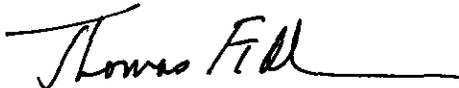
The Department also believes that the adoption of either Option 2 or 3 would satisfy EPA's obligations under Section 112(d)(6) of the CAA to review and revise emission standards under Section 112(d) of the CAA. As Pennsylvania's experience shows, solvent substitution, operation consolidation, CADS, and vacuum-to-vacuum machines are available controls available to narrow tube facilities to reduce emissions. Moreover, data submitted by the Department shows these techniques and controls can reduce, also significantly, ambient concentrations and concomitantly reduce risk to the general population. Moreover, the controls and techniques are cost-effective.

Conclusion

Based on the EPA analysis in the preamble to the October 20, 2008 notice, the experiences of the Pennsylvania narrow tube industry, and the enclosed reports, data, plan approvals, and operating permits, the Department believes that either Option 2 or 3 is an appropriate regulatory approach to reduce TCE emissions from the narrow tube industry. In addition, the Department proposes that under either Option 2 or 3, EPA add a provision which states that facilities in the narrow tube industry that exceed the 60,000 kg/yr MC equivalent HAP emissions would have to achieve 80 percent overall control efficiency for those units and be required to do a site-specific risk assessment to ensure that any residual emissions are at an acceptable risk level.

The Department appreciates the opportunity to comment on this proposed rule. Please contact Joyce Epps, Director of the Bureau of Air Quality, by telephone at 717-787-9702 or by email at jepps@state.pa.us should you have any questions concerning these comments.

Sincerely,



Thomas Fidler
Deputy Secretary for
Waste, Air and Radiation Management

Enclosures



Collegetown Area Air Monitoring Report

January 19, 2007

**Commonwealth of Pennsylvania
Department of Environmental Protection**

**Edward G. Rendell, Governor
Commonwealth of Pennsylvania**

**Kathleen A. McGinty, Secretary
Department of Environmental Protection**

www.dep.state.pa.us

Executive Summary

On April 1, 2004, the Pennsylvania Department of Environmental Protection (DEP) conducted ambient air monitoring in Collegeville at a soccer field located on Ursinus College property. The instrument, an Open-Path Fourier Transform Infrared Spectroscopy System, was capable of detecting and quantifying numerous air pollutants in real time. The DEP was especially interested in the ambient air concentrations of trichloroethylene (TCE) for two reasons: historic groundwater contamination in the area due to TCE, and nearby sources that emit TCE into the air. During this sampling event, TCE was detected continuously between 10:30 AM and 11:15 AM, with a peak of 15 parts per billion (ppb) at 10:37 AM. Additional sampling was conducted in the Collegeville area from June 21 through June 24, 2004 with similar results. The DEP decided that the duration and magnitude of the TCE detected warranted further investigation.

To fully evaluate TCE concentrations, the DEP established two air monitoring sites in the Collegeville area. One is located in Evansburg State Park, the other at the former YMCA on College Avenue in Trappe. The purpose of the monitoring is to determine the concentration of TCE and other air toxics in the outdoor air, and to evaluate the risk to residents associated with exposure to those pollutants at the concentrations found. Sampling began on January 4, 2005.

Air samples are collected in evacuated canisters at the Collegeville sites over a 24-hour period from midnight to midnight. Samples are collected in the same manner on the same schedule (every sixth day) at all Pennsylvania air toxics monitoring network sites. The DEP's central laboratory analyzes the samples for 55 volatile organic compounds (VOCs) based on the Environmental Protection Agency (EPA) Method TO-15. Because there are neither state nor national air quality standards for these pollutants, the DEP evaluated the health risks associated with breathing the measured concentrations using risk assessment methods approved by EPA. The DEP also compared Collegeville data to other monitoring sites in Pennsylvania where similar sampling is conducted.

The number of compounds that were detected at the Collegeville sites and the concentrations of most compounds were similar to other sites in urban or industrial areas. However, higher annual average concentrations of TCE significantly increased the aggregate excess lifetime cancer risk in the Collegeville area compared to other sites in Pennsylvania.

The DEP will continue monitoring in the Collegeville area. The DEP is also pursuing reductions of TCE emissions from major TCE-emitting facilities in the area.

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Introduction

Background

On April 1, 2004, the Pennsylvania Department of Environmental Protection (DEP) conducted ambient air monitoring in Collegeville at a soccer field located on Ursinus College property. The instrument, an Open-Path Fourier Transform Infrared Spectroscopy System, was capable of detecting and quantifying numerous air pollutants classified as volatile organic compounds (VOCs). The DEP was especially interested in the ambient air concentrations of trichloroethylene (TCE) because of historic groundwater contamination in the area due to TCE, and the concentration of TCE emitting sources in the area. During this sampling event, TCE was detected continuously between 10:30 AM and 11:15 AM, with a peak of 15 ppb at 10:37 AM. Additional sampling was conducted in the Collegeville area from June 21 through June 24, 2004 with similar results. The DEP decided that the duration and magnitude of the TCE detected warranted further investigation.

To fully evaluate TCE concentrations, the DEP established two air monitoring sites in the Collegeville area. One is located in Evansburg State Park, the other at the former YMCA on College Avenue in Trappe. The purpose of the monitoring is to determine the concentration of TCE and other air toxics in the outdoor air, and to evaluate the risk to residents associated with exposure to those pollutants at the concentrations found. Sampling began on January 4, 2005.

Note that there are neither state nor national air quality standards for these pollutants. Therefore, the DEP evaluated the health risks associated with breathing the measured concentrations of these pollutants using risk assessment methods approved by EPA. The DEP also compared Collegeville data to other monitoring sites in Pennsylvania where similar sampling is conducted.

Details on the monitoring equipment, sampling methods, pollutants monitored, risk assessment and the next steps for this study are described in the following sections of this report.

Monitoring

Since January 4, 2005, the DEP has collected air samples every sixth day, at both sites, in evacuated stainless steel canisters that are analyzed by the DEP laboratory for 55 VOCs. Some samples were missed due to equipment problems, and sampling stopped from September 25, 2005 to October 31, 2005 while the laboratory moved to a new building.

The specific VOCs that can be measured are determined by the analytical method and by the number of compounds in the calibration standards. The DEP Laboratory's method is based on EPA Compendium Method TO-15, Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by

Gas Chromatography/Mass Spectrometry (GC/MS). EPA's National Risk Management Research Laboratory developed this "Compendium of Methods for the Determination of Toxic Organic (TO) Compounds in Ambient Air" to assist federal, state, and local regulatory personnel in developing and maintaining necessary expertise and up-to-date monitoring technology for characterizing organic pollutants in the ambient air.

The GC/MS instrument detects very low levels of pollutants, down to a few hundredths of a part per billion, by concentrating the pollutants onto a trap cooled with liquid nitrogen. The GC/MS separates the chemical compounds and then detects and identifies the compounds by matching the ion fragment patterns and retention times to known chemical standards.

The 55 target VOCs include 33 "Hazardous Air Pollutants" listed in the 1990 Clean Air Act Amendments and additional compounds emitted by industry, motor vehicles and other sources. The laboratory reports the concentration of VOCs in parts per billion volume (ppbv). Table 1 lists the target compounds, other commonly used names, each compound's Chemical Abstract Service (CAS) number that uniquely identifies the chemical, and the DEP Laboratory's method detection limits (MDLs). The MDLs are determined by a standard laboratory quality control procedure (40 CFR Part 136, Appendix B). The DEP laboratory also has a reporting limit for each compound, typically ten times the MDL, above which the measured concentrations meet the laboratory standard for accuracy. At concentrations between the MDL and the reporting limit, there is confidence that the compound is actually present but less certainty in the accuracy of the reported concentration.

The Trappe monitoring site is equipped with a 15-foot roof-mounted meteorological system, which measures wind speed and direction, temperature, relative humidity, precipitation and solar radiation (visible sunlight). An electronic datalogger takes a measurement every 10 seconds, and then calculates and stores 15-minute averages and one-hour averages for all parameters, except for precipitation, for which it stores the one-hour total. Wind data for 2005 is summarized in a wind rose format in Appendix D.

Because there are neither state nor national ambient air quality standards for these pollutants, Collegeville data are compared in this report to data collected at the other DEP air toxics monitoring sites including Arendtsville, Chester, Erie, Lancaster, Lewisburg, Marcus Hook, Pottstown and Swarthmore. Sampling began at the Evansburg and Trappe sites in January 2005. Figure 1 shows the locations of DEP air toxic monitoring sites.

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Table 1. Volatile organic compounds reported by the DEP laboratory and the 2005 method detection limits (MDL).

Compound*	Synonyms	CAS Number	2005 MDL (ppbv)
<u>1,3-Butadiene</u>		106-99-0	0.04
<u>1,2-Dibromoethane</u>	Ethylene dibromide, EDB	106-93-4	0.04
cis-1,3-Dichloro-1-propene		10061-01-5	0.02
trans-1,3-Dichloro-1-propene		10061-02-6	0.02
1,2-Dichloro-1,1,2,2-tetrafluoroethane	Freon 114	76-14-2	0.04
1,2-Dichlorobenzene		95-50-1	0.16
1,3-Dichlorobenzene		541-73-1	0.14
<u>1,4-Dichlorobenzene</u>	Para-Dichlorobenzene	106-46-7	0.14
<u>1,1-Dichloroethane</u>	Ethylidene chloride	75-34-3	0.04
<u>1,2-Dichloroethane</u>	Ethylene chloride	107-06-2	0.04
<u>1,1-Dichloroethene</u>	Vinylidene chloride	75-35-4	0.04
cis-1,2-Dichloroethene		156-59-2	0.04
trans-1,2-Dichloroethene		156-60-5	0.04
<u>1,2-Dichloropropane</u>		78-87-5	0.04
1-Ethyl-4-methyl benzene		622-96-8	0.16
<u>1,1,2,2-Tetrachloroethane</u>		79-34-5	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane	Freon 113	76-13-1	0.04
1,2,4-Trichlorobenzene		120-82-1	0.2
<u>1,1,1-Trichloroethane</u>	Methyl chloroform	71-55-6	0.04
<u>1,1,2-Trichloroethane</u>		79-00-5	0.04
1,2,4-Trimethylbenzene	Pseudocumene	95-63-6	0.14
1,3,5-Trimethylbenzene		108-67-8	0.14
<u>2-Butanone</u>	Methyl ethyl ketone, MEK	78-93-3	0.16
2-Hexanone	Methyl butyl ketone, MBK	591-78-6	0.38
<u>2-Methoxy-2-methyl propane</u>	Methyl-tert-butyl ether, MTBE	1634-04-4	0.04
<u>4-Methyl-2-pentanone</u>	MIBK	108-10-1	0.88
Acetone		67-64-1	0.14
<u>Benzene</u>	Benzol	71-43-2	0.04
Bromodichloromethane		75-27-4	0.04
<u>Bromoform</u>	Tribromomethane	75-25-2	0.02
<u>Bromomethane</u>		74-83-9	0.04
<u>Carbon disulfide</u>		75-15-0	0.04
<u>Carbon tetrachloride</u>	Tetrachloromethane	56-23-5	0.04
<u>Chlorobenzene</u>		108-90-7	0.04
<u>Chloroethane</u>	Ethyl chloride	75-00-3	0.04
<u>Chloroethene</u>	Vinyl Chloride	75-01-4	0.04
<u>Chloroform</u>	Trichloromethane	67-66-3	0.04

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Table 1. (continued).

Compound*	Synonyms	CAS Number	2005 MDL (ppbv)
<u>Chloromethane</u>	Methyl chloride	74-87-3	0.04
Cyclohexane		110-82-7	0.04
Dibromochloromethane		124-48-1	0.04
Dichlorodifluoromethane	Freon 12	75-71-8	0.04
<u>Ethylbenzene</u>		100-41-4	0.04
n-Heptane		142-82-5	0.04
<u>Hexachloro-1,3-butadiene</u>		87-68-3	0.12
<u>n-Hexane</u>		110-54-3	0.04
<u>Methylene chloride</u>	Dichloromethane	75-09-2	0.04
Propene	Propylene	115-07-1	0.16
<u>Styrene</u>		100-42-5	0.02
<u>Tetrachloroethene</u>	Perchloroethylene, PERC	127-18-4	0.04
Tetrahydrofuran	1,4-Epoxybutane, THF	109-99-9	0.04
<u>Toluene</u>	Toluol	108-88-3	0.04
<u>Trichloroethylene</u>	Trichloroethene, TCE	79-01-6	0.04
Trichlorofluoromethane	Freon 11	75-69-4	0.04
<u>m & p- Xylene</u>		108-38-3	0.06
<u>o-Xylene</u>		95-47-6	0.04

* Highlighted compounds are listed in the 1990 Clean Air Act Amendments as Hazardous Air Pollutants.



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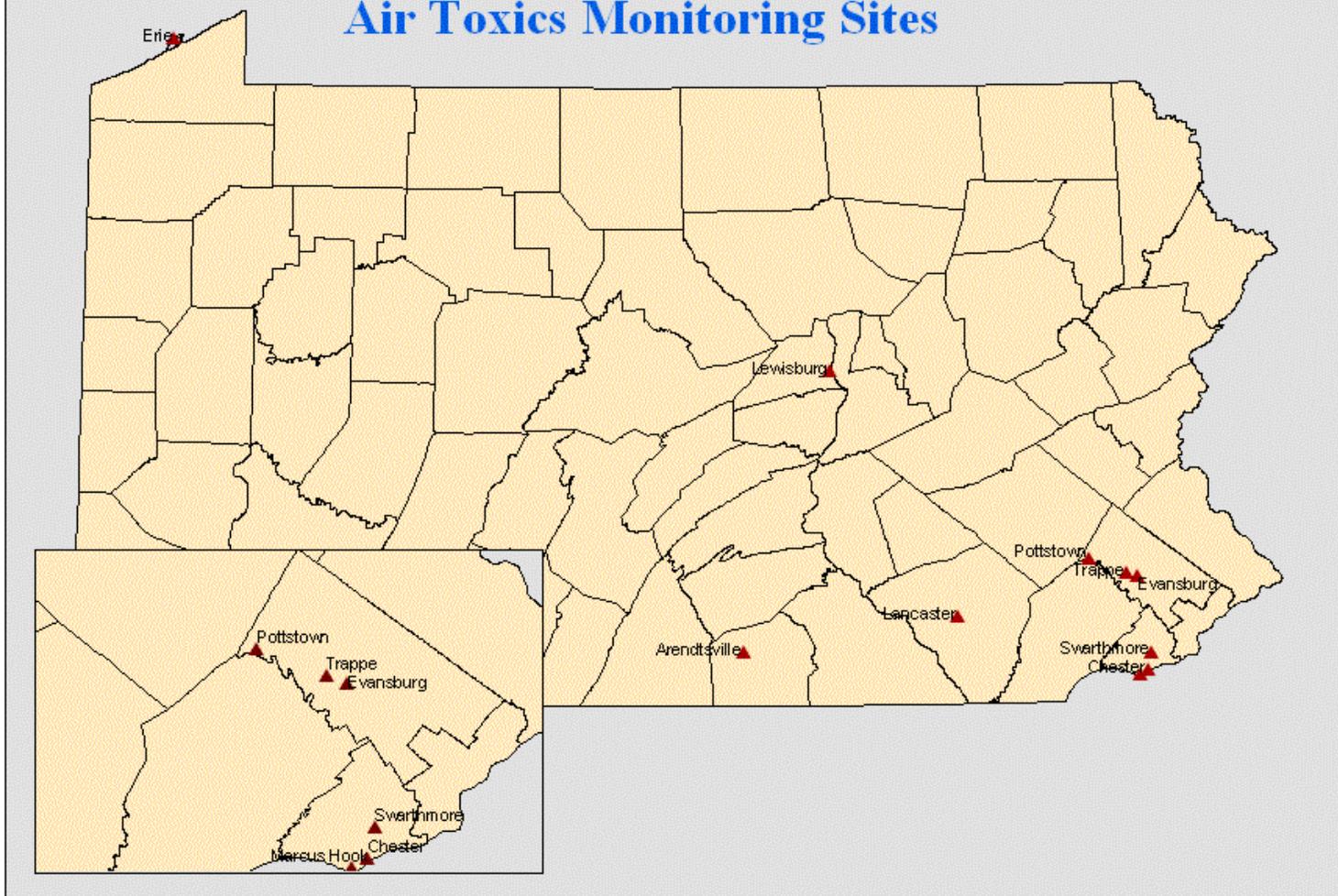


Figure 1. Map of air toxic monitoring sites in Pennsylvania in 2005.

Discussion of Monitoring Results

In summarizing the data, DEP calculated annual average concentrations for each of the 55 VOCs. In an effort to be more conservative with these averages, one-half the MDL was used, rather than zero, whenever a VOC was not detected (ND) in the sample. A VOC is considered non-detected if the concentration is less than its MDL. When concentrations are below the MDL the result cannot be distinguished with statistical confidence from background noise. The MDLs are determined by a standard laboratory quality control procedure (40 CFR Part 136, Appendix B). The definition of MDL is “the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte”. In addition to the MDL, the lab also uses a reporting limit for each VOC, which is approximately ten times the MDL. If data is between the MDL and the reporting limit, there is confidence that the VOC is actually present, but less certainty in the accuracy of the reported concentration.

During 2005, 29 out of 55 target VOCs were detected at the Evansburg site and 30 out of 55 at the Trappe site. Table 2 shows the percent of the time each VOC was detected at each Pennsylvania air toxics site. Fifteen VOCs were detected at all ten monitoring sites. The number of compounds detected at the two Collegeville sites is similar to other sites in industrial or urban areas. However, different compounds are present at different sites reflecting local influences. Arendtsville is a rural background site in Adams County, and as would be expected, fewer pollutants were detected. Note that there are neither state nor national air quality standards for these pollutants. Instead, the DEP evaluated the health risks associated with breathing the measured concentrations of these pollutants using risk assessment methods approved by EPA. The DEP also compared Collegeville data to other monitoring sites in Pennsylvania where similar sampling is conducted.

Annual average concentrations are used to compare the toxic air pollutants at different sites, and to estimate the cancer and non-cancer risk from inhalation exposure to ambient air. Table 3 shows these comparisons for 2005.

Collegeville data can be downloaded from the DEP web site. Go to www.dep.state.pa.us; click “Search”, “Toxics”, “Toxics Monitoring Sites”, and then “Collegeville”.

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Table 2. Percentage of 2005 samples where compound concentrations were above the method detection limit.

Compound*	Arendtsville	Chester	Erie	Evansburg	Lancaster	Lewisburg	Marcus Hook	Pottstown	Swarthmore	Trappe
1,3-Butadiene	0	0	0	0	0	7	0	49	0	5
<u>1,2-Dibromoethane (EDB)</u>	0	0	0	0	0	0	0	0	0	0
<u>cis-1,3-Dichloro-1-propene</u>	0	0	0	0	0	0	0	0	0	0
<u>trans-1,3-Dichloro-1-propene</u>	0	0	0	0	0	0	0	0	0	0
<u>1,2-Dichloro-1,1,2,2-tetrafluoroethane</u>	0	0	0	0	0	0	0	0	0	0
<u>1,2-Dichlorobenzene</u>	0	0	0	0	0	0	0	0	0	0
<u>1,3-Dichlorobenzene</u>	0	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	6	0	0	0	0	4	0	0	0
<u>1,1-Dichloroethane</u>	0	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	3	0	0	0	0	4	0	0	0
<u>1,1-Dichloroethene</u>	0	0	0	0	0	0	0	0	0	0
<u>cis-1,2-Dichloroethene</u>	0	0	0	0	0	0	0	0	0	0
<u>trans-1,2-Dichloroethene</u>	0	0	0	0	0	0	0	0	0	0
<u>1,2-Dichloropropane</u>	0	0	0	0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	6	0	0	10	7	21	5	0	2
<u>1,1,2,2-Tetrachloroethane</u>	0	0	0	0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	100	100	100	100	100	100	100	100	100	100
<u>1,2,4-Trichlorobenzene</u>	0	0	0	0	0	0	0	0	0	0
1,1,1-Trichloroethane	0	100	0	0	0	0	0	0	0	0
<u>1,1,2-Trichloroethane</u>	0	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	44	10	10	46	27	75	34	19	30
1,3,5-Trimethylbenzene	2	29	3	10	17	13	25	32	11	5
2-Butanone (MEK)	100	100	97	98	98	100	100	100	100	100
2-Hexanone (MBK)	20	3	0	5	0	0	4	0	0	3
2-Methoxy-2-methyl propane (MTBE)	36	97	0	86	49	23	100	95	96	91
4-Methyl-2-pentanone (MIBK)	10	0	0	4	2	0	7	2	4	5
Acetone	100	100	100	100	100	100	100	100	100	100
Benzene	100	100	100	100	100	100	100	100	100	100
<u>Bromodichloromethane</u>	0	0	0	0	0	0	0	0	0	0
<u>Bromoform</u>	0	0	0	0	0	0	0	0	0	0
Bromomethane	0	6	0	2	0	0	11	0	7	5
Carbon disulfide	21	29	10	24	15	33	29	37	41	39
Carbon tetrachloride	100	100	100	100	100	100	100	100	100	100
Chlorobenzene	0	0	0	0	100	0	4	0	0	0
Chloroethane	43	18	0	12	0	0	21	0	7	7
Chloroethene	0	6	0	2	0	0	7	2	0	0
Chloroform	0	0	3	0	5	0	0	2	0	0

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Table 2. (continued).

Compound*	Arendtsville	Chester	Erie	Evansburg	Lancaster	Lewisburg	Marcus Hook	Pottstown	Swarthmore	Trappe
Chloromethane	100	100	100	100	100	100	100	100	100	100
Cyclohexane	0	44	6	10	17	7	93	15	19	20
<u>Dibromochloromethane</u>	0	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	100	100	100	100	100	100	100	100	100	100
Ethylbenzene	0	56	13	18	63	40	100	100	33	45
n-Heptane	26	100	26	84	83	73	100	93	89	75
<u>Hexachloro-1,3-butadiene</u>	0	0	0	0	0	0	0	0	0	0
n-Hexane	57	100	77	80	100	80	100	98	100	86
Methylene chloride	43	91	61	88	88	67	89	71	100	75
Propene	88	100	87	98	100	97	100	100	100	98
Styrene	0	6	13	0	22	23	100	100	4	5
Tetrachloroethene (PERC)	0	35	6	12	12	7	32	7	26	25
Tetrahydrofuran (THF)	0	100	0	4	5	7	7	27	0	0
Toluene	79	100	97	100	98	97	100	100	100	98
Trichloroethylene (TCE)	0	9	10	76	0	7	7	32	22	82
Trichlorofluoromethane	100	100	100	100	100	100	100	100	100	100
m & p- Xylene	0	85	32	46	80	67	100	100	44	82
o-Xylene	0	47	16	28	59	47	100	98	33	66
Number of Compounds Detected	19	33	24	29	28	27	34	30	27	30

* Highlighted compounds were not detected at any site.

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Table 3. Summary of 2005 annual average concentrations and excess lifetime cancer risks from inhalation of targeted VOCs across all Pennsylvania monitoring sites.

Compound	Arendtsville			Chester			Erie			Evansburg ²		
	Annual Avg ¹		Cancer Risk									
	ppbv	µg/m ³		ppbv	µg/m ³		ppbv	µg/m ³		ppbv	µg/m ³	
1,3-Butadiene	0.02	0.04	1.3E-06	0.02	0.04	1.3E-06	0.02	0.04	1.3E-06	<u>0.02</u>	<u>0.04</u>	1.3E-06
1,2-Dibromoethane	0.02	0.15	8.8E-05	0.02	0.15	8.8E-05	0.02	0.15	8.8E-05	<u>0.02</u>	<u>0.15</u>	8.8E-05
cis-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07	<u>0.01</u>	<u>0.05</u>	1.8E-07
trans-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07	<u>0.01</u>	<u>0.05</u>	1.8E-07
1,2-Dichlorobenzene	0.08	0.48	-----	0.08	0.48	-----	0.08	0.48	-----	<u>0.08</u>	<u>0.48</u>	-----
1,4-Dichlorobenzene	0.07	0.42	2.6E-06	0.07	0.42	2.6E-06	0.07	0.42	2.6E-06	<u>0.07</u>	<u>0.42</u>	2.6E-06
1,1-Dichloroethane	0.02	0.08	1.3E-07	0.02	0.08	1.3E-07	0.02	0.08	1.3E-07	<u>0.02</u>	<u>0.08</u>	1.3E-07
1,2-Dichloroethane	0.02	0.08	2.1E-06	0.02	0.08	2.2E-06	0.02	0.08	2.1E-06	<u>0.02</u>	<u>0.08</u>	2.1E-06
1,1-Dichloroethene	0.02	0.08	-----	0.02	0.08	-----	0.02	0.08	-----	<u>0.02</u>	<u>0.08</u>	-----
1,2-Dichloropropane	0.02	0.09	-----	0.02	0.09	-----	0.02	0.09	-----	<u>0.02</u>	<u>0.09</u>	-----
1,1,2,2-Tetrachloroethane	0.07	0.48	2.8E-05	0.07	0.48	2.8E-05	0.07	0.48	2.8E-05	<u>0.07</u>	<u>0.48</u>	2.8E-05
1,1,2-Trichloro-1,2,2-trifluoroethane	0.06	0.50	-----	0.08	0.61	-----	0.06	0.45	-----	0.06	0.48	-----
1,2,4-Trichlorobenzene	0.10	0.74	-----	0.10	0.74	-----	0.10	0.74	-----	<u>0.10</u>	<u>0.74</u>	-----
1,1,2-Trichloroethane	0.02	0.11	1.7E-06	0.02	0.11	1.7E-06	0.02	0.11	1.7E-06	<u>0.02</u>	<u>0.11</u>	1.7E-06
Benzene	0.14	0.45	3.5E-06	0.27	0.86	6.7E-06	0.18	0.56	4.4E-06	0.18	0.58	4.5E-06
Bromoform	0.01	0.10	1.1E-07	0.01	0.10	1.1E-07	0.01	0.10	1.1E-07	<u>0.01</u>	<u>0.10</u>	1.1E-07
Bromomethane	0.02	0.08	-----	0.04	0.16	-----	0.02	0.08	-----	0.02	0.09	-----
Carbon Tetrachloride	0.08	0.51	7.6E-06	0.07	0.45	6.8E-06	0.08	0.52	7.8E-06	0.09	0.55	8.2E-06
Chlorobenzene	0.02	0.09	-----	0.02	0.09	-----	0.02	0.09	-----	<u>0.02</u>	<u>0.09</u>	-----
Chloroethane	0.04	0.11	-----	0.03	0.09	-----	0.02	0.05	-----	0.03	0.07	-----
Chloroethene	0.02	0.05	4.5E-07	0.02	0.06	4.9E-07	0.02	0.05	4.5E-07	0.02	0.05	4.6E-07
Chloroform	0.02	0.10	2.2E-06	0.02	0.10	2.2E-06	0.02	0.12	2.8E-06	<u>0.02</u>	<u>0.10</u>	2.2E-06
Chloromethane	0.54	1.11	-----	0.48	0.99	-----	0.48	0.99	-----	0.48	0.98	-----
Cyclohexane	0.02	0.07	-----	0.05	0.19	-----	0.02	0.08	-----	0.02	0.08	-----
Dichlorodifluoromethane	0.43	2.14	-----	0.43	2.14	-----	0.43	2.11	-----	0.43	2.11	-----
Ethylbenzene	0.02	0.09	-----	0.05	0.20	-----	0.03	0.12	-----	0.03	0.12	-----
Hexachloro-1,3-butadiene	0.06	0.64	1.4E-05	0.06	0.64	1.4E-05	0.06	0.64	1.4E-05	<u>0.06</u>	<u>0.64</u>	1.4E-05
Methylene Chloride	0.03	0.12	5.6E-08	0.08	0.26	1.2E-07	0.04	0.15	6.9E-08	0.07	0.25	1.2E-07
Styrene	0.01	0.04	-----	0.01	0.05	-----	0.01	0.06	-----	<u>0.01</u>	<u>0.04</u>	-----
Tetrachloroethylene	0.02	0.14	7.7E-07	0.04	0.30	1.7E-06	0.05	0.34	1.9E-06	0.02	0.16	9.4E-07
Tetrahydrofuran	0.02	0.06	1.1E-07	0.90	2.66	5.2E-06	0.02	0.06	1.1E-07	0.02	0.07	1.4E-07
Toluene	0.09	0.35	-----	0.51	1.92	-----	0.19	0.73	-----	0.34	1.29	-----
Trichloroethylene (TCE)	0.02	0.11	1.2E-05	0.03	0.15	1.7E-05	0.02	0.12	1.4E-05	0.14	0.77	8.8E-05
Trichlorofluoromethane	0.21	1.20	-----	0.22	1.23	-----	0.21	1.15	-----	0.21	1.19	-----
m,p-Xylene	0.03	0.13	-----	0.16	0.68	-----	0.07	0.28	-----	0.07	0.32	-----
o-Xylene	0.02	0.09	-----	0.05	0.21	-----	0.03	0.13	-----	0.03	0.13	-----
		Total Risk	1.7E-04			1.8E-04			1.7E-04			2.4E-04

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Table 3. (continued).

Compound	Lancaster			Lewisburg			Marcus Hook			Pottstown		
	Annual Avg ¹		Cancer Risk									
	ppbv	µg/m ³		ppbv	µg/m ³		ppbv	µg/m ³		ppbv	µg/m ³	
1,3-Butadiene	0.02	0.04	1.3E-06	0.03	0.07	2.2E-06	0.02	0.04	1.3E-06	0.19	0.42	1.3E-05
1,2-Dibromoethane	0.02	0.15	8.8E-05									
cis-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07									
trans-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07									
1,2-Dichlorobenzene	0.08	0.48	-----	0.08	0.48	-----	0.08	0.48	-----	0.08	0.48	-----
1,4-Dichlorobenzene	0.07	0.42	2.6E-06									
1,1-Dichloroethane	0.02	0.08	1.3E-07									
1,2-Dichloroethane	0.02	0.08	2.1E-06	0.02	0.08	2.1E-06	0.02	0.08	2.2E-06	0.02	0.08	2.1E-06
1,1-Dichloroethene	0.02	0.08	-----	0.02	0.08	-----	0.02	0.08	-----	0.02	0.08	-----
1,2-Dichloropropane	0.02	0.09	-----	0.02	0.09	-----	0.02	0.09	-----	0.02	0.09	-----
1,1,2,2-Tetrachloroethane	0.07	0.48	2.8E-05									
1,1,2-Trichloro-1,2,2-trifluoroethane	0.06	0.48	-----	0.06	0.46	-----	0.06	0.49	-----	0.07	0.50	-----
1,2,4-Trichlorobenzene	0.10	0.74	-----	0.10	0.74	-----	0.10	0.74	-----	0.10	0.74	-----
1,1,2-Trichloroethane	0.02	0.11	1.7E-06									
Benzene	0.30	0.95	7.4E-06	0.24	0.76	6.0E-06	0.72	2.29	1.8E-05	0.32	1.02	7.9E-06
Bromoform	0.01	0.10	1.1E-07	0.01	0.00	0.0E+00	0.01	0.10	1.1E-07	0.01	0.10	1.1E-07
Bromomethane	0.02	0.08	-----	0.02	0.08	-----	0.06	0.21	-----	0.02	0.08	-----
Carbon Tetrachloride	0.09	0.56	8.4E-06	0.09	0.56	8.4E-06	0.08	0.51	7.6E-06	0.09	0.58	8.7E-06
Chlorobenzene	0.08	0.38	-----	0.02	0.09	-----	0.02	0.10	-----	0.02	0.09	-----
Chloroethane	0.02	0.05	-----	0.02	0.05	-----	0.06	0.15	-----	0.02	0.05	-----
Chloroethene	0.02	0.05	4.5E-07	0.02	0.05	4.5E-07	0.02	0.06	5.1E-07	0.02	0.06	4.9E-07
Chloroform	0.02	0.10	2.4E-06	0.02	0.10	2.2E-06	0.02	0.10	2.2E-06	0.02	0.10	2.4E-06
Chloromethane	0.49	1.02	-----	0.44	0.91	-----	0.53	1.10	-----	0.50	1.03	-----
Cyclohexane	0.03	0.10	-----	0.03	0.11	-----	0.20	0.69	-----	0.03	0.09	-----
Dichlorodifluoromethane	0.43	2.13	-----	0.44	2.16	-----	0.45	2.24	-----	0.44	2.19	-----
Ethylbenzene	0.06	0.26	-----	0.06	0.25	-----	0.20	0.89	-----	0.21	0.93	-----
Hexachloro-1,3-butadiene	0.06	0.64	1.4E-05									
Methylene Chloride	0.08	0.28	1.3E-07	0.06	0.19	9.1E-08	0.13	0.45	2.1E-07	0.08	0.28	1.3E-07
Styrene	0.02	0.08	-----	0.09	0.40	-----	0.20	0.87	-----	0.33	1.42	-----
Tetrachloroethylene	0.02	0.16	9.4E-07	0.02	0.15	8.4E-07	0.04	0.24	1.4E-06	0.02	0.17	9.6E-07
Tetrahydrofuran	0.08	0.22	4.4E-07	0.06	0.19	3.6E-07	0.02	0.07	1.4E-07	0.04	0.10	2.0E-07
Toluene	0.58	2.20	-----	0.33	1.26	-----	1.14	4.30	-----	0.58	2.19	-----
Trichloroethylene (TCE)	0.02	0.11	1.2E-05	0.02	0.13	1.5E-05	0.03	0.14	1.6E-05	0.04	0.20	2.3E-05
Trichlorofluoromethane	0.22	1.23	-----	0.22	1.22	-----	0.22	1.26	-----	0.22	1.23	-----
m,p-Xylene	0.20	0.86	-----	0.22	0.96	-----	0.57	2.46	-----	0.38	1.66	-----
o-Xylene	0.07	0.30	-----	0.07	0.30	-----	0.22	0.94	-----	0.13	0.57	-----
		Total Risk	1.7E-04			1.7E-04			1.8E-04			1.9E-04

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Table 3. (continued).

Compound	Swarthmore			Trappe ³		
	Annual Avg ¹		Cancer Risk	Annual Avg ¹		Cancer Risk
	ppbv	µg/m ³		ppbv	µg/m ³	
1,3-Butadiene	0.02	0.04	1.3E-06	0.03	0.06	1.8E-06
1,2-Dibromoethane	0.02	0.15	8.8E-05	0.02	0.15	8.8E-05
cis-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07
trans-1,3-Dichloro-1-propene	0.01	0.05	1.8E-07	0.01	0.05	1.8E-07
1,2-Dichlorobenzene	0.08	0.48	-----	0.08	0.48	-----
1,4-Dichlorobenzene	0.07	0.42	2.6E-06	0.07	0.42	2.6E-06
1,1-Dichloroethane	0.02	0.08	1.3E-07	0.02	0.08	1.3E-07
1,2-Dichloroethane	0.02	0.08	2.1E-06	0.02	0.08	2.1E-06
1,1-Dichloroethene	0.02	0.08	-----	0.02	0.08	-----
1,2-Dichloropropane	0.02	0.09	-----	0.02	0.09	-----
1,1,2,2-Tetrachloroethane	0.07	0.48	2.8E-05	0.07	0.48	2.8E-05
1,1,2-Trichloro-1,2,2-trifluoroethane	0.07	0.50	-----	0.06	0.50	-----
1,2,4-Trichlorobenzene	0.10	0.74	-----	0.10	0.74	-----
1,1,2-Trichloroethane	0.02	0.11	1.7E-06	0.02	0.11	1.7E-06
Benzene	0.26	0.82	6.4E-06	0.23	0.74	5.8E-06
Bromoform	0.01	0.10	1.1E-07	0.01	0.10	1.1E-07
Bromomethane	0.02	0.09	-----	0.02	0.09	-----
Carbon Tetrachloride	0.08	0.48	7.3E-06	0.09	0.58	8.8E-06
Chlorobenzene	0.02	0.09	-----	0.02	0.09	-----
Chloroethane	0.02	0.06	-----	0.02	0.06	-----
Chloroethene	0.02	0.05	4.5E-07	0.02	0.05	4.5E-07
Chloroform	0.02	0.10	2.2E-06	0.02	0.10	2.2E-06
Chloromethane	0.52	1.08	-----	0.47	0.97	-----
Cyclohexane	0.03	0.10	-----	0.03	0.09	-----
Dichlorodifluoromethane	0.44	2.18	-----	0.43	2.13	-----
Ethylbenzene	0.04	0.16	-----	0.04	0.18	-----
Hexachloro-1,3-butadiene	0.06	0.64	1.4E-05	0.06	0.64	1.4E-05
Methylene Chloride	0.11	0.38	1.8E-07	0.06	0.22	1.0E-07
Styrene	0.01	0.05	-----	0.01	0.04	-----
Tetrachloroethylene	0.03	0.23	1.3E-06	0.03	0.24	1.3E-06
Tetrahydrofuran	0.02	0.06	1.1E-07	0.02	0.06	1.1E-07
Toluene	0.51	1.92	-----	0.37	1.38	-----
Trichloroethylene (TCE)	0.03	0.17	1.9E-05	0.26	1.37	1.6E-04
Trichlorofluoromethane	0.35	1.94	-----	0.22	1.22	-----
m,p-Xylene	0.10	0.43	-----	0.15	0.63	-----
o-Xylene	0.04	0.17	-----	0.07	0.29	-----
		Total Risk	1.8E-04			3.1E-04

¹ Annual Avg is the arithmetic mean of valid samples with 1/2 the MDL substituted for non-detects.

² A highlighted concentration indicates the compound was not detected at the Evansburg site in 2005.

³ A highlighted concentration indicates the compound was not detected at the Trappe site in 2005.

Risk Characterization

Overview of Risk Factors and Reference Doses

The excess lifetime cancer risk for each of the chemical compounds was calculated using unit risk factors (URFs), and the risk for non-cancer health effects was calculated using reference air concentrations (RfCs). The URF is a measure of the probability of developing cancer from exposure over a lifetime to a specified concentration of a given chemical. The RfC is the concentration below which no (non-cancer) adverse health effects are expected to occur over a lifetime of continuous exposure. The EPA Region III Superfund Technical Support Section's risk-based concentration (RBC) table was the primary source for the risk factors. In some cases, there were no inhalation risk data for a chemical in the RBC table, so other sources, such as the Boilers and Industrial Furnaces (BIF) Regulation, had to be referenced. Table 7 in Appendix C lists the URFs and RfCs, and summarizes their sources. A total of 36 of the targeted VOCs had data for either the inhalation reference dose or inhalation cancer slope factor (from which the RfC and URF are derived).

The URF and RfC are derived by assuming an adult weighing 70 kilograms (154 pounds) will breathe 20 m³ (706 ft³) of air each day for 365 days a year, over a 70-year lifetime of exposure. (For more details on these calculations, see Appendix C.) The excess lifetime cancer risk is calculated for each chemical by multiplying its URF by the average concentration of all the valid air samples collected during the year. The individual risks for each chemical are added to get the total excess lifetime cancer risk at that site.

The excess lifetime cancer risk numbers are written in an exponential format (e.g. 1.0E-04). Refer to Table 4 when interpreting these numbers. For example, an excess lifetime cancer risk of 1.9E-04 means that 1.9 more people in a population of 10,000 are likely to develop cancer.

Table 4. Interpreting the risk numbers.

Risk	Exponential	Decimal	Read as...
1.0E-08	1x10 ⁻⁸	0.00000001	1 in 100 million
1.0E-07	1x10 ⁻⁷	0.0000001	1 in 10 million
1.0E-06	1x10 ⁻⁶	0.000001	1 in 1 million
1.0E-05	1x10 ⁻⁵	0.00001	1 in 100,000
1.0E-04	1x10 ⁻⁴	0.0001	1 in 10,000
1.0E-03	1x10 ⁻³	0.001	1 in 1,000
1.0E-02	1x10 ⁻²	0.01	1 in 100
1.0E-01	1x10 ⁻¹	0.1	1 in 10

Any risk estimate is based on a number of assumptions and some of the assumptions made for this study include:

- The measured annual average concentration is the concentration that the individual will be exposed to over a lifetime;
- The concentrations measured at the sampling site are representative of exposures to the population in the area;
- The effects from exposure to multiple chemicals are additive;
- The exposure is based on a typical adult;
- The only excess risk considered in this report is due to inhalation;
- The cancer slope factor for each compound is assumed to be correct although reliability ratings vary greatly from compound to compound. Some are based on many well-controlled studies, while others are based on limited data and listed as provisional values.

The non-cancer risk associated with each of the relevant compounds is calculated by simply dividing the measured air concentration by the compound's respective RfC. If this value is less than one, and inhalation is the only source of exposure, then that chemical is not likely to cause adverse non-cancer health effects.

Table 3 shows the excess lifetime cancer risks for inhalation exposure calculated using 2005 annual average VOC concentrations. The total risk for each site includes compounds that were not detected. As explained earlier, it is accepted practice to include non-detected compounds in risk calculations by substituting a concentration defined as one-half the MDL. Thus, by conservatively including these non-detected compounds in the aggregate risk at concentrations of one-half the MDL, the risks in Table 3 are a "worst-case-scenario" risk calculation. To emphasize this practice, note that the highlighted concentrations for the Collegeville sites in Table 3 were never detected, but are reported at one-half the MDL.

Excess Lifetime Cancer Risk

The total excess lifetime cancer risk for inhalation using the annual average concentration of VOCs detected in 2005 was significantly higher at the Collegeville sites than other monitoring sites across Pennsylvania (Table 5). This was mainly driven by higher concentrations of trichloroethylene (TCE) in the Collegeville area, a chemical primarily used to clean and degrease metals.

The annual average TCE concentrations in 2005 at the Trappe and Evansburg sites were 0.26 ppbv and 0.14 ppbv, respectively. In comparison, most other Pennsylvania sites in 2005 were near or below the 0.04 ppbv detection limit. The excess lifetime cancer risk due to TCE in 2005 was 1.60 in 10,000 at the Trappe site and 0.88 in 10,000 at the Evansburg site (Table 6). Note that at the Trappe site, TCE (one compound) is accounting for over half the excess lifetime cancer risk.

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Table 5. Excess lifetime cancer risk for inhalation of ambient VOC concentrations per population of 10,000.

Site	Excess Lifetime Cancer Risk per 10,000 (Total VOC)			
	2002	2003	2004	2005
Arendtsville	0.73	1.2	1.3	1.7
Chester	0.82	1.3	1.5	1.8
Erie	0.79	1.2	1.3	1.7
Evansburg	-----	-----	-----	2.4
Lancaster	0.79	1.3	1.4	1.7
Lewisburg	-----	-----	1.4	1.7
Marcus Hook	0.93	1.3	1.4	1.8
Pottstown	2.00	1.6	1.5	1.9
Swarthmore	0.81	1.3	1.4	1.8
Trappe	-----	-----	-----	3.1

Table 6. Excess lifetime cancer risk for inhalation of ambient trichloroethylene (TCE) concentrations per population of 10,000.

Site	Excess Lifetime Cancer Risk per 10,000 (TCE)			
	2002	2003	2004	2005
Arendtsville	0.12	0.12	0.12	0.12
Chester	0.17	0.15	0.17	0.17
Erie	0.20	0.12	0.12	0.14
Evansburg	-----	-----	-----	0.88
Lancaster	0.13	0.13	0.14	0.12
Lewisburg	-----	-----	0.14	0.15
Marcus Hook	0.15	0.13	0.14	0.16
Pottstown	1.30	0.42	0.26	0.23
Swarthmore	0.12	0.13	0.18	0.19
Trappe	-----	-----	-----	1.60

It is important to note that the laboratory MDLs for VOCs in 2005 were higher than MDLs in 2002 due to changes in the GC/MS analytical equipment. Because any compound that was not detected was given a value of one-half the MDL for excess lifetime cancer risk calculations (as explained in the previous section), the calculated risks across all sites are greater in 2005 than in 2002 (Table 5).

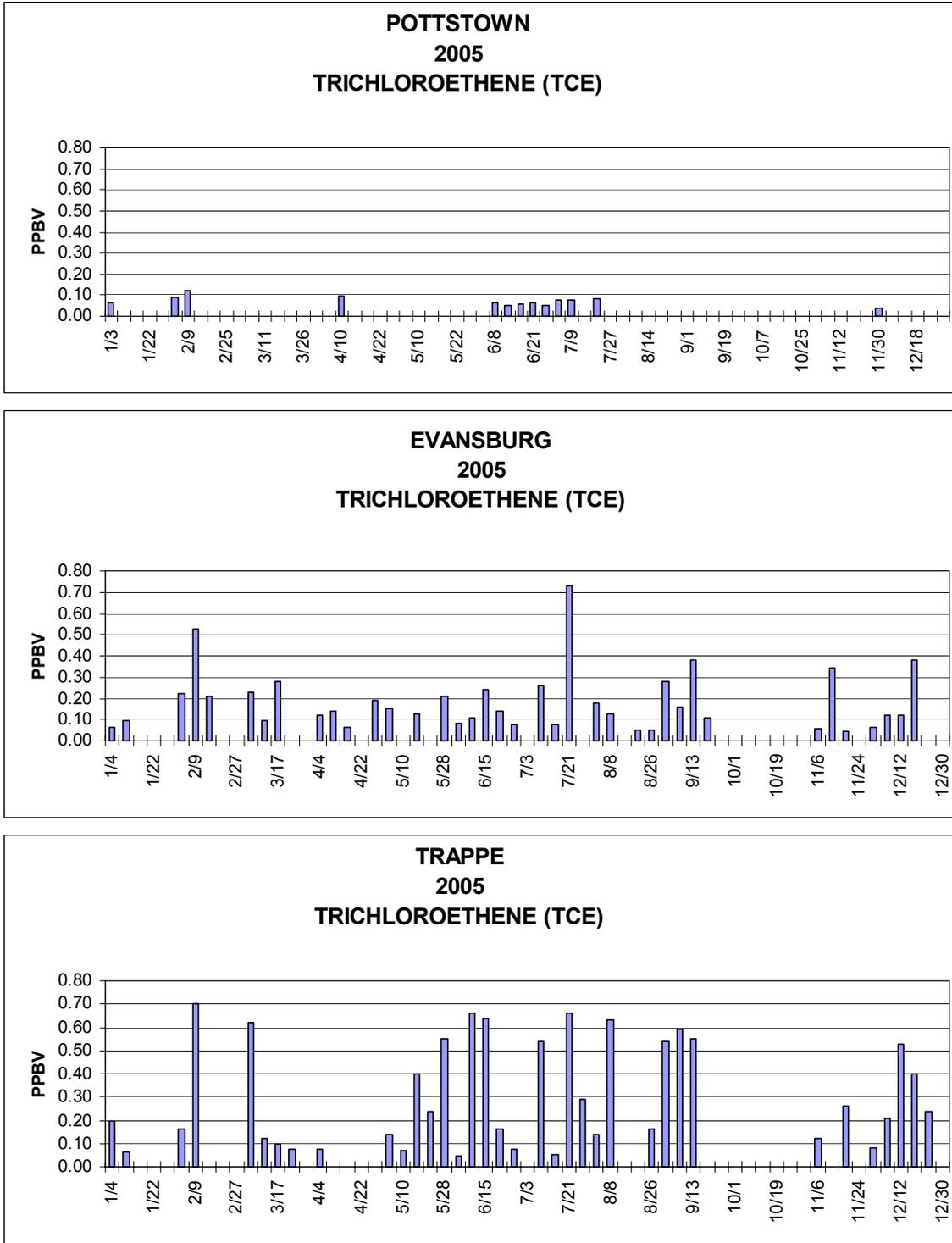
Non-Cancer Health Effects

There were no VOCs with annual average concentrations (Table 3) above their respective RfC (Table 7). Consequently, non-cancer health effects are not expected from breathing the air in the Collegeville area.

Next Steps

Figure 2 is an additional illustration of higher TCE concentrations at the Trappe and Evansburg sites compared to the other Montgomery County site in Pottstown. These higher TCE concentrations are contributing to higher total excess lifetime cancer risks compared to the other sites. Consequently, DEP is pursuing reductions of TCE emissions from two large TCE emitting facilities in the Collegeville area. DEP will continue to sample at both locations, however, a new location is being sought in Trappe due to the closure of the YMCA building.

Figure 2. Trichloroethylene (TCE) concentrations at three sites in Montgomery County.



Appendix

A. Monitoring

Equipment

Canister Sampler - Andersen Instruments, Inc. AVOCS

Canisters - Six-liter, SUMMA-polished from various suppliers

Wind Sensors - Climatronics model F460 low-threshold anemometer and tail vane, 10-meter tower height, wind direction referenced to True North

Temperature and Relative Humidity - Vaisala model HMP-45

Solar Radiation: Silicon Cell, Matrix, Inc. model Mk 1-G

Precipitation - Texas Electronics, Inc. model TE-525 tipping bucket, 0.01 inches per tip, unheated, rain only

Datalogger: Campbell Scientific model CR-10X, 10-second measurement interval, calculates 15-minute averages, 15-minute sigma theta (standard deviation of horizontal wind direction), 1-hour averages and 1-hour total precipitation

Canister Analysis - Entech 7000 or 7100A sample concentrator, Agilent 6890 gas chromatograph, 5973 quadrupole mass spectrometer

Samples were collected over a 24-hour period once every six days. This same schedule is used at other toxic monitoring sites across the state to allow for comparison between sites.

The automated Andersen sampler pumps air into an evacuated stainless steel canister, at a constant flow rate, over a 24-hour sampling period. The filled canister is returned the DEP laboratory for analysis.

Calibration and Analysis

The laboratory GC/MS system is calibrated using working standards prepared from a 500 ppbv, 60-component commercial gas cylinder standard (Spectra Gases, Inc.) diluted with humidified nitrogen. In addition, a 15-component primary standard (National Institute of Standards and Technology, NIST SRM-1800) is analyzed to verify the calibration. Each run consists of standards, blanks and continuing calibration standards after every ten samples.

After analysis, canisters are cleaned and evacuated by the laboratory. After each batch is cleaned, at least one canister is filled and retested as a blank to verify they are clean.

Canisters are not dedicated to a specific site, so canisters used at the Collegeville sites may be cleaned and sent to other ambient monitoring sites.

B. Definitions

Blank – Sampling materials and chemicals analyzed without collecting a sample to test for contaminants that might interfere with the analysis. The analytical protocol specifies acceptable blank levels and how these values are used.

Chronic — Occurs over a long period of time. Cancer is the primary health effect considered when evaluating the risk from chronic exposure to a chemical compound.

Excess Risk — The increased risk of disease above the normal background rate.

Mean — The arithmetic average. For example: $(2.2 + 2.6 + 4.8) / 3 = 3.2$

Method Detection Limit (MDL) — The MDLs are determined by a standard laboratory quality control procedure (40 CFR Part 136, Appendix B). The definition of MDL is “the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte”.

Microgram — A microgram is one millionth of a gram weight. (The symbol μg is commonly used for microgram). Ambient air concentrations are commonly expressed in micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$). Because air expands and contracts with changes in temperature and pressure, the cubic meter volume must be referenced to a specific temperature and pressure. Standard conditions for ambient air measurements are 25° C (77° F) and one atmosphere (29.92 inches of mercury).

ppbv — Parts per billion by volume – The concentration units commonly used for gaseous pollutants in ambient air. These units are not used for non-gaseous pollutants.

Reference Air Concentration (RfC) — The concentration of a specific chemical in the air below which no (non-cancer) adverse health affects are expected to occur over a lifetime of continuous exposure.

Reporting Limit (RL) — The RL of a compound is approximately ten times its MDL. Concentrations at or above the RL are considered quantifiably accurate. If data is between the RL and the MDL, there is confidence that the compound is actually present, but less certainty in the accuracy of the reported concentration.

Unit Risk Factor (URF) — A measure of the probability of an individual developing cancer as a result of exposure to a specified unit concentration of a specific chemical. In air, the unit concentration is $1.0 \mu\text{g}/\text{m}^3$. For example, an inhalation URF of $3.0\text{E}-04$ implies that if 10,000 people breathe that chemical for 70 years at a concentration of $1.0 \mu\text{g}/\text{m}^3$, three of the 10,000 may develop cancer as a result of the exposure.

Volatile Organic Chemical (VOC) — A chemical compound containing carbon that can be present in the atmosphere as a vapor at normal temperatures. Generally, chemicals with vapor pressures greater than 0.1 mmHg at 20°C (0.0001316 atmospheres at 68°F) are classified as volatile, and chemicals with measurable vapor pressures that are less than 0.1 mmHg are classified as semi-volatile.

C. Risk Calculation

The excess lifetime cancer risk for each of the chemical compounds was calculated using unit risk factors (URFs), and the risk for non-cancer health effects was calculated using reference air concentrations (RfCs) (Table 7). The EPA Region III Superfund Technical Support Section has established a risk-based concentration (RBC) table for nearly 500 chemicals. Four different chronic toxicological constants are examined for each chemical compound: 1) Oral Reference Dose (RfDo), 2) Inhalation Reference Dose (RfDi), 3) Oral Cancer Slope Factor (CSFo), and 4) Inhalation Cancer Slope Factor (CSFi). For this study, only the RfDi and CSFi were used. In some cases, there were no inhalation risk data for the chemicals in the RBC table, so other sources, such as the Boilers and Industrial Furnaces (BIF) Regulation, had to be referenced.

The URF and the RfC are derived from the CSFi and RfDi, respectively, by assuming that an adult weighing 70 kilograms (154 pounds) will breathe 20 m^3 (706 ft^3) of air a day for 365 days a year, over a 70-year lifetime of exposure. From this standard 70-year exposure scenario for an adult, excess lifetime cancer risk is calculated for each chemical by multiplying the measured air concentrations by their respective URFs. The individual risks for each chemical are added to get the total excess lifetime cancer risk at that site. The non-cancer risk associated with each of the relevant chemicals is calculated by simply dividing the measured air concentration by the chemical's respective RfC. If the result is less than 1, non-cancer health effects are not expected.

The conversion from CSFi to URF is carried out as follows:

$$(\text{kg}\cdot\text{day})/\text{mg} \times (1/70 \text{ kg}) \times (20 \text{ m}^3/\text{day}) \times (\text{mg}/1000 \mu\text{g}) = \text{m}^3/\mu\text{g}$$

The conversion from RfDi to RfC is carried out as follows:

$$\text{mg}/(\text{kg}\cdot\text{day}) \times (70 \text{ kg}) \times (\text{day}/20 \text{ m}^3) \times (1000 \mu\text{g}/\text{mg}) = \mu\text{g}/\text{m}^3$$

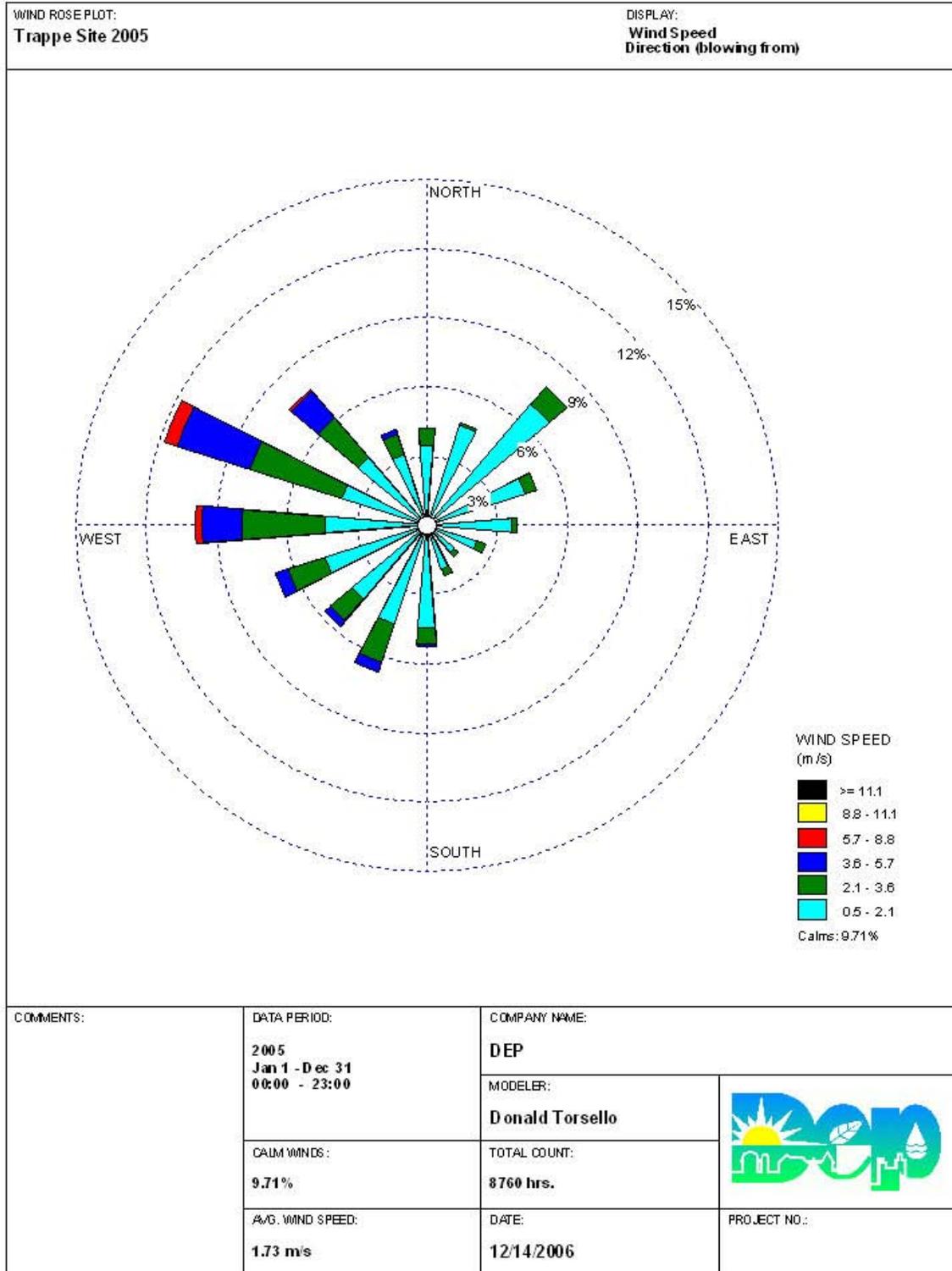
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Table 7. Cancer Unit Risk Factors and Reference Air Concentrations.

Compound	Unit Risk Factor m ³ /μg	Reference Air Concentration μg/m ³	Molecular Weight	Source URF ¹	Source RfC ¹
1,3-Butadiene	3.00E-05	2.00E+00	54.1	I	I
1,2-Dibromoethane	5.71E-04	9.00E+00	187.9	I	I
cis-1,3-Dichloro-1-propene	4.00E-06	2.00E+01	111.0	I	I
trans-1,3-Dichloro-1-propene	4.00E-06	2.00E+01	111.0	I	I
1,2-Dichlorobenzene	-	1.40E+02	147.0		O
1,4-Dichlorobenzene	6.29E-06	8.00E+02	147.0	O	I
1,1-Dichloroethane	1.60E-06	5.00E+02	99.0	O	O
1,2-Dichloroethane	2.60E-05	2.45E+03	99.0	I	O
1,1-Dichloroethene	-	2.00E+02	97.0		I
1,2-Dichloropropane	-	4.00E+00	113.0		I
1,1,2,2-Tetrachloroethane	5.80E-05	-	167.9	I	
1,1,2-Trichloro-1,2,2-trifluoroethane	-	3.00E+04	187.4		O
1,2,4-Trichlorobenzene	-	3.50E+00	181.4		O
1,1,2-Trichloroethane	1.60E-05	-	133.4	I	
Benzene	7.80E-06	3.00E+01	78.1	I	I
Bromoform	1.11E-06	-	252.7	I	
Bromomethane	-	5.00E+00	95.0		I
Carbon Tetrachloride	1.50E-05	1.75E+02	153.8	I	O
Chlorobenzene	-	6.00E+01	112.6		O
Chloroethane	-	1.00E+04	64.5		I
Chloroethene	8.80E-06	1.00E+02	62.5	I	I
Chloroform	2.30E-05	4.90E+01	119.4	I	O
Chloromethane	-	9.00E+01	50.5		I
Cyclohexane	-	6.00E+03	84.2		I
Dichlorodifluoromethane	-	1.75E+02	120.9		O
Ethylbenzene	-	1.00E+03	106.2		I
Hexachloro-1,3-butadiene	2.20E-05	-	260.7	I	
Methylene Chloride	4.70E-07	1.00E+03	84.9	I	O
Styrene	-	1.00E+03	104.2		I
Tetrachloroethylene	5.71E-06	2.80E+02	165.8	O	O
Tetrahydrofuran	1.94E-06	3.00E+02	72.1	O	O
Toluene	-	4.90E+03	92.1		I
Trichloroethylene (TCE)	1.14E-04	3.50E+01	131.4	O	O
Trichlorofluoromethane	-	7.00E+02	137.4		O
m,p-Xylene	-	1.00E+02	106.2		I
o-Xylene	-	1.00E+02	106.2		I

¹ I - Integrated Risk Information System (IRIS)
 O - Other sources

D. Wind Rose



WRPLOT View - Lales Environmental Software



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- D-II: Testing Requirements
- D-III: Monitoring Requirements
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SECTION A. Table of Contents

Note: These same sub-sections are repeated for each source!

Section E. Alternative Operating Scenario(s)

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- E-V: Reporting Requirements
- E-VI: Work Practice Standards
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Section F. Emission Restriction Summary

Section G. Miscellaneous



SECTION A. Site Inventory List

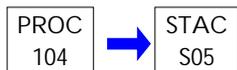
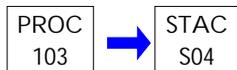
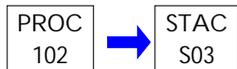
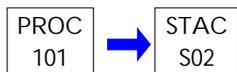
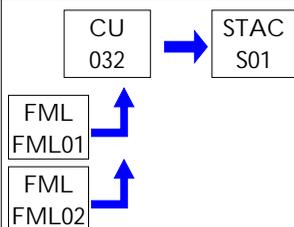
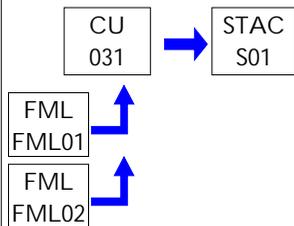
Source ID	Source Name	Capacity/Throughput	Fuel/Material
031	TITUSVILLE BOILER #2166	20.000 MMBTU/HR	
		132.000 Gal/HR	#6 Oil
		19.000 MCF/HR	Natural Gas
032	TITUSVILLE BOILER #2526	25.000 MMBTU/HR	
		165.000 Gal/HR	#6 Oil
		23.800 MCF/HR	Natural Gas
101	FLUSH/BLOWOUT BOOTH #1603	18.000 Lbs/HR	TRICH.ETHYLENE
		3.000 Lbs/HR	ACETONE
102	FLUSH/BLOWOUT BOOTH 1960	18.800 Lbs/HR	TRICH.ETHYLENE
		3.000 Lbs/HR	ACETONE
103	LUBRIC. SPRAY BOOTH #6779	18.400 Lbs/HR	TRICHL.ETHYLENE
104	LUBRIC. SPRAY BOOTH #1691	18.400 Lbs/HR	TRICHL.ETHYLENE
106	PICKLE TANK #6143	26.000 Lbs/HR	NITRIC/HF ACID
107	PICKLE TANK #6139	26.000 Lbs/HR	NITRIC/HF ACID
108A	PICKLE TANK #6129	29.000 Lbs/HR	
113	SOLVENT CLEANER TANK #1291	18.400 Lbs/HR	TRICHL.ETHYLENE
117	SOLVENT CLEANER TANK #6836	18.400 Lbs/HR	TRICHL.ETHYLENE
124	LUBRICATION SPRAY BOOTH #1976	18.400 Lbs/HR	TRICH.ETHYLENE
125	GENERAL SOURCE FUG EMIS	18.000 Lbs/HR	VARIOUS VOCS
126	PICKLE TANK #6132	2.600 Lbs/HR	NITRIC/HF ACID
127	PICKLE TANK #6021	2.600 Lbs/HR	NITRIC/HF ACID
130	AIR STRIPPING COLUMN #3528		
131	AIR STRIPPING COLUMN #3542		
132	AIR STRIPPING COLUMN #3543		
133	ANNEALING FURNACES (2)	1.600 MCF/HR	Natural Gas
141	SOLVENT CLEANER TANK #6172	1.000 Lbs/HR	ISOPROPYL ALCOHOL
142	SOLVENT CLEANING TANK #6169	1.000 Lbs/HR	ISOPROPYL ALCOHOL
149	VAPOR DEGREASER #661	80.000 Lbs/HR	TRICHLOROETHYLENE
160	EMERGENCY GENERATOR	328.000 CF/HR	NATURAL GAS
C16	CARBON ADSORBER		
FML01	NAT GAS PIPELINE		
FML02	#6 FUEL OIL TANK		
S01	BOILER STACK		
S02	FLUSH/BLOW STACK #1603		
S03	FLUSH/BLOW STACK #1960		
S04	LUBRIC BOOTH #6779 STACK		
S05	LUBRIC BOOTH #1691 STACK		
S07	PICKLE TANK 6143/6132 STK		
S08	PICKLE TANK #6139 STACK		
S09A	PICKLE TANK #6129 STACK		
S10	PICKLE TANK #6021 STACK		



SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
S13	AIR STRIPPER #3528 STACK		
S14	AIR STRIPPER #3542 STACK		
S149	DEGREASER # 661 BYPASS STACK		
S15	AIR STRIPPER #3543 STACK		
S160	EMER GENERATOR STACK		
S24	SOLVENT CLEANER #1291 STK		
S25	LUBRIC BOOTH #1976 STACK		
S27	SOLVENT CLEANER #6836 STK		
S35	DEGREASER STACK		
Z10	GENERAL SOURCE FUGITIVE		
Z13	ANNEALING FURNACE FUG.		
Z149	DEGREASER # 661 FUGITIVE		
Z15	SOLVENT CLEANER #6172 FUG		
Z16	SOLVENT CLEANER #6169 FUG		

PERMIT MAPS





PERMIT MAPS

PROC 106 → STAC S07

PROC 107 → STAC S08

PROC 108A → STAC S09A

PROC 113 → STAC S24

PROC 117 → STAC S27

PROC 124 → STAC S25

PROC 125 → STAC Z10

PROC 126 → STAC S07

PROC 127 → STAC S10

PROC 130 → STAC S13

PROC 131 → STAC S14

PROC 132 → STAC S15

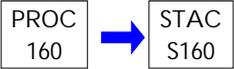
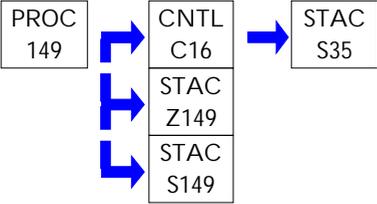
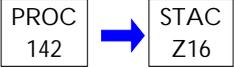
PROC 133 → STAC Z13

FML FML01 ↗

PROC 141 → STAC Z15



PERMIT MAPS





SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.512(c)(4)]

Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#003 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,



SECTION B. General Title V Requirements

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.



SECTION B. General Title V Requirements

#008 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#011 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

**SECTION B. General Title V Requirements**

#012 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

#013 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

- (a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.
- (b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

- (a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code § 127.450(a), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.
- (b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]

Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.
- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

SECTION B. General Title V Requirements

(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less



SECTION B. General Title V Requirements

than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#018 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).



SECTION B. General Title V Requirements

#019 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter,
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Air Enforcement Branch (3AP12)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:



SECTION B. General Title V Requirements

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#024 [25 Pa. Code § 127.513]

Compliance Certification

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This



SECTION B. General Title V Requirements

certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance or, of the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

#025 [25 Pa. Code § 127.3]

Operational Flexibility

(a) The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,



SECTION B. General Title V Requirements

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.



SECTION B. General Title V Requirements

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.

(d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.



SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

<p># 001 [25 Pa. Code §121.7] Prohibition of air pollution. No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).</p>
<p># 002 [25 Pa. Code §123.1] Prohibition of certain fugitive emissions No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:</p> <p>(a) Construction or demolition of buildings or structures.</p> <p>(b) Grading, paving, and maintenance of roads and streets.</p> <p>(c) Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.</p> <p>(d) Clearing of land.</p> <p>(e) Stockpiling of materials.</p> <p>(f) Sources, and classes of sources, other than those identified in (a) - (e) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive emissions from the source, after appropriate controls, meet the following requirements:</p> <p>(1) The emissions are of minor significance with respect to causing air pollution; and</p> <p>(2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.</p> <p>(g) The following are permitted fugitive sources:</p> <p>(1) 125 - General source fugitive emissions (2) 133 - two annealing furnaces (3) 141 - Solvent cleaner tank #6172 (4) 142 - Solvent cleaner tank #6169 (5) 143 - Solvent cleaner tank #6983 (6) 734 - Space Heaters (7) Open Burning as related to 25 Pa. Code §129.14.</p>
<p># 003 [25 Pa. Code §123.2] Fugitive particulate matter A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #002, of this Section, if such emissions are visible at the point the emissions pass outside the person's property.</p>
<p># 004 [25 Pa. Code §123.31] Limitations A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.</p>
<p># 005 [25 Pa. Code §123.41] Limitations A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:</p>



SECTION C. Site Level Requirements

(a) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.

(b) Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]

Exceptions

The limitations of Condition #005, of this Section, shall not apply to a visible emission in either of the following instances:

(a) When the presence of uncombined water is the only reason for failure to meet the limitations.

(b) When the emission results from the sources specified in Condition #002, of this Section.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The total VOC emissions from this facility shall not exceed 166.0 tons in any 12 consecutive month period.

The total NOx emissions from this facility shall not exceed 79.2 tons in any 12 consecutive month period.

008 [25 Pa. Code §129.14]

Open burning operations

No person may permit the open burning of material in the Southeast Air Basin, except when the open burning results from:

(a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.

(b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.

(c) A fire set solely for cooking food.

(d) A fire set solely for recreational or ceremonial purposes.

(e) A fire set for the prevention and control of disease or pests, when approved by the Department.

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

(a) If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.



SECTION C. Site Level Requirements

III. MONITORING REQUIREMENTS.

010 [25 Pa. Code §123.43]

Measuring techniques

Visible emissions may be measured using either of the following:

- (a) A device approved by the Department and maintained to provide accurate opacity measurements.
- (b) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

- (a) The permittee shall monitor the facility, once per operating day, for the following:
 - (1) Odors which may be objectionable.
 - (2) Visible Emissions.
 - (3) Fugitive Particulate Matter.
- (b) All detectable objectionable odors, that originated on-site and cross the property line, as well as fugitive particulate emissions and visible emissions that originated on site shall:
 - (1) Be investigated.
 - (2) Be reported to the facility management, or individual(s) designated by the permittee.
 - (3) Be recorded in a permanent written log.
- (c) After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.
- (d) After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

Within thirty (30) days after permit issuance, the permittee shall submit, to the Department for approval, the proposed recordkeeping formats required in this Title V Operating Permit.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) Date, time, and location of the incident(s).



SECTION C. Site Level Requirements

- (b) The cause of the event.
- (c) The corrective action taken, if necessary, to abate the situation and prevent future occurrences.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall perform calculations, using a Department approved method, to demonstrate compliance with the VOC and NOx emission limits for the entire facility.

V. REPORTING REQUIREMENTS.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The Department has changed the deviation and compliance certification reporting requirements. The initial reports for (a) and (b), below, shall be due on the dates provided and may cover only a partial reporting period.

The permittee shall submit the following reports:

(a) An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under Condition # 024, Section B, of this permit.

(b) A semi-annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the same year. Note: The annual compliance certification fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

(a) The permittee shall, within two (2) hours, of becoming knowledgeable, of any occurrence, notify the Department, at (484) 250-5920, of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.

(b) Malfunction(s) which occur at this Title V facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c) A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1) The malfunction(s).
- (2) The emission(s).
- (3) The duration.
- (4) Any corrective action taken.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

The deviations report required by Condition #023(b), of Section B, of this permit, shall be submitted to the Department,



SECTION C. Site Level Requirements

within six (6) months after final permit issuance, and, at a frequency of at least every six (6) months thereafter.

018 [25 Pa. Code §135.21]

Emission statements

The permittee shall submit by March 1, of each year, an annual emission statement for the preceding calendar year.

019 [25 Pa. Code §135.3]

Reporting

The permittee shall submit by March 1, of each year, an Air Information Management System (AIMS) inventory report, for the preceding calendar year.

VI. WORK PRACTICE REQUIREMENTS.

020 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in Condition #002, of this Section, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, as approved by the Department, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b) Application of asphalt, water, or other suitable chemicals, as approved by the Department, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that the sources and air pollution control devices, listed in Section A, of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturers specifications.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

- (a) The permittee may not cause the modification of any source(s) identified in Section A, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.
- (b) If an unauthorized modification of any source(s) occurs at this facility, then this permit, as it pertains to the modified source(s), may be suspended and the source(s) shall not be operated until authorized by the Department

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall implement an employee training program for all new and existing personnel involved in cleaning operations. This training shall address steps to reducing VOC usage, the requirements of this operating permit, as well as



SECTION C. Site Level Requirements

the requirements of all applicable state and federal regulations. The training program shall include, at a minimum, the following:

- (a) A list of all personnel by name and job description that are required to be trained;
- (b) An outline of all subjects to be covered in the initial and refresher training for each person, or group of personnel;
- (c) Lesson plans for courses to be given at the initial and the annual refresher training that include appropriate application techniques for appropriate management of cleanup wastes;
- (d) A description of the methods to be used at the completion of initial or refresher training to demonstrate and document successful completion.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

All lids from drums and containers containing volatile organic compounds shall be kept closed except when the contents are being transferred.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

All spills of solvents shall be cleaned up as soon as possible.

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall immediately implement measures, which may include the application for a Plan Approval for the installation of air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A, of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

A. The following previously issued Title V Operating Permit and Plan Approvals serve as the basis for certain terms and conditions set forth in this renewed Title V Permit:

OP-46-0020,
OP-46-0020B, and
PA-46-0020C.

B. The following equipment shall be physically disabled, and shall not contain, store, process, or emit any VOC, including TCE.

- (1) Solvent Cleaning Tank #1369 (Source # 115)
- (2) Lubrication Dip Tank # 6876 (Source # 119)
- (3) Lubrication Dip Tank # 1205 (Source # 121)
- (4) Solvent Cleaning Tank #6983 (Source # 143)

C. Storage Tank # 6825 shall be removed from service upon completion of replacement of TCE by nPB use as a solvent in the vapor degreaser No. 661. Storage tank # 6825 shall not contain, store or emit any VOC, including TCE after 15 days of



SECTION C. Site Level Requirements

removal from service.

D. Once the permittee makes a replacement of TCE by nPB as a solvent in a source and then decides to switch back to TCE from nPB, the Department shall be notified in writing, 72 hours prior to the switch back. The Department reserves the right to ask for additional information regarding the use of TCE.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For purposes of complying with Condition #024(b), of Section B (General Conditions), the permittee shall adhere to the site specific Compliance Certification requirements of Section C, Roman Numeral VIII, below.

029 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The facility is entitled to VOC emission reduction credits (ERCs) totaling 4.14 tpy in recognition of the shutdown of Spray Lubrication Booth No. 1540.

(b) Pursuant to the provisions of 25 Pa. Code § 127.206(f), the VOC credits created from the shutdown of Spray Lubrication Booth No. 1540 shall expire, if not consumed prior to, April 10, 2009.

(c) The ERCs may be used, traded, or sold after the approved entry of the ERCs by the Department in the Pennsylvania ERC Registry system.

(d) Spray Lubrication Booth No. 1540 is to remain permanently shutdown. If the facility plans to bring this shutdown source back into production, the facility shall submit an appropriate Plan Approval application. Any subsequent emissions from this shutdown source shall comply with New Source Review (NSR) regulations in 25 Pa. Code, Subchapter E.

(e) Superior Tube Company and any subsequent user of these credits shall comply with the requirements of 25 Pa. Code §§ 127.206 - 127.209.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

*** Permit Shield In Effect ***

**SECTION D. Source Level Requirements**

Source ID: 031

Source Name: TITUSVILLE BOILER #2166

Source Capacity/Throughput:

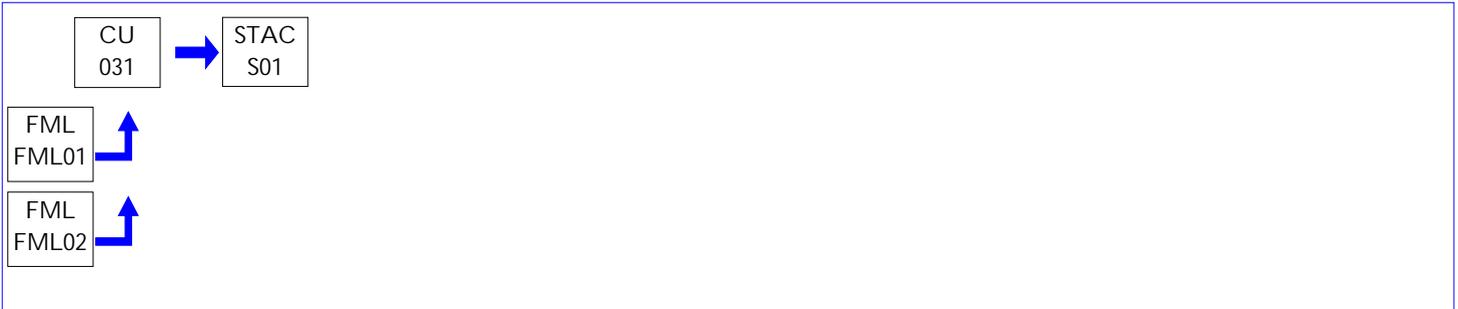
20.000 MMBTU/HR

132.000 Gal/HR

#6 Oil

19.000 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.11]

Combustion units

A person may not permit the emission into the outdoor atmosphere of particulate matter from this boiler in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of No. 6 fuel oil for use in this boiler which contains sulfur in excess of 1.0% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

Compliance with this condition assures compliance with 25 Pa. Code 123.22(e)(1) for the outer zone.]

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).

(3) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The testing requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier,

**SECTION D. Source Level Requirements**

showing the percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the amount, and type, of fuel consumed by this boiler, on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.512(h) and 129.93.]

Each adjustment conducted under the procedures in Condition #008(a), for this boiler, shall be recorded in a permanently bound log book, and contain the following:

- (a) The date of the tuning procedure.
- (b) The name of the service company and technician.
- (c) The final operating rate or load.
- (d) The final CO and NOx emission rates.
- (e) The final excess oxygen rate.

007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the amount, and type, of fuel consumed by this boiler, on a weekly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.512(h) and 129.93.]

(a) The permittee shall perform an annual tune-up on the combustion process for this boiler. The annual tune-up shall consist of, at a minimum, the following:

- (1) Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
- (2) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NOx, and to the extent practicable, minimize the emissions of CO.
- (3) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

(b) The annual combustion tune-up shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 (EPA-3401/1-83-023) or equivalent procedures approved by the Department in writing.



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

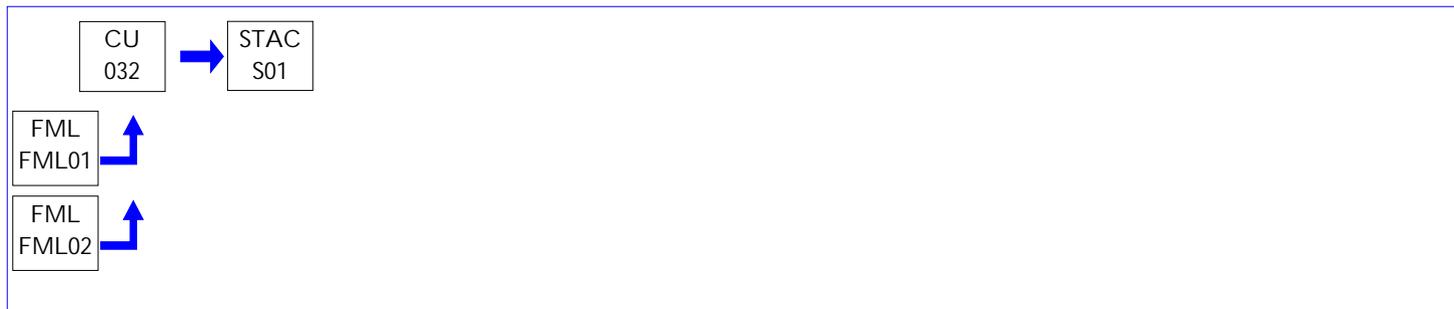
Source ID: 032

Source Name: TITUSVILLE BOILER #2526

Source Capacity/Throughput: 25.000 MMBTU/HR

165.000 Gal/HR #6 Oil

23.800 MCF/HR Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.11]

Combustion units

A person may not permit the emission into the outdoor atmosphere of particulate matter from this boiler in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

Fuel Restriction(s).

003 [25 Pa. Code §123.22]

Combustion units

No person may, at any time, offer for sale, deliver for use, exchange in trade or permit the use of No. 6 fuel oil for use in this boiler which contains sulfur in excess of 1.0% by weight, pursuant to 25 Pa. Code § 123.22(e)(2).

Compliance with this condition assures compliance with 25 Pa. Code 123.22(e)(1) for the outer zone.]

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §139.16]

Sulfur in fuel oil.

(a) The following are applicable to tests for the analysis of commercial fuel oil:

(1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).

(2) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15).

(3) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).

(b) The testing requirements in subpart (a), above, shall be waived in the event that a delivery receipt from the supplier,

**SECTION D. Source Level Requirements**

showing the percent sulfur in the fuel, is obtained each time a fuel oil delivery is made.

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the amount, and type, of fuel consumed by this boiler, on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.512(h) and 129.93.]

Each adjustment conducted under the procedures in Condition #008(a), for this boiler, shall be recorded in a permanently bound log book, and contain the following:

- (a) The date of the tuning procedure.
- (b) The name of the service company and technician.
- (c) The final operating rate or load.
- (d) The final CO and NOx emission rates.
- (e) The final excess oxygen rate.

007 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the amount, and type, of fuel consumed by this boiler, on a weekly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.512(h) and 129.93.]

(a) The permittee shall perform an annual tune-up on the combustion process for this boiler. The annual tune-up shall consist of, at a minimum, the following:

- (1) Inspection, adjustment, cleaning or replacement of fuel burning equipment, including the burners and moving parts necessary for proper operation as specified by the manufacturer.
- (2) Inspection of the flame pattern or characteristics and adjustments necessary to minimize total emissions of NOx, and to the extent practicable, minimize the emissions of CO.
- (3) Inspection of the air-to-fuel ratio control system and adjustments necessary to ensure proper calibration and operation as specified by the manufacturer.

(b) The annual combustion tune-up shall be made in accordance with EPA document "Combustion Efficiency Optimization Manual for Operators of Oil and Gas-fired Boilers," September 1983 (EPA-3401/1-83-023) or equivalent procedures approved by the Department in writing.



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 101

Source Name: FLUSH/BLOWOUT BOOTH #1603

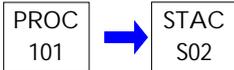
Source Capacity/Throughput:

18.000 Lbs/HR

TRICH.ETHYLENE

3.000 Lbs/HR

ACETONE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this flush/blow booth shall not exceed 7.2 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall monitor the amount and type of solvent used by this source on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall record the amount and type of solvent used by this source on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the site-wide 12 consecutive month VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Spills shall be wiped up immediately and the wipe rags shall be stored in covered containers.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]



SECTION D. Source Level Requirements

<p>Parts shall be drained for a minimum of fifteen (15) seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.</p>	
<p># 006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462] Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch cold cleaning machine standards</p> <p>[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]</p> <p>All waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.</p>	
<p># 007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462] Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch cold cleaning machine standards</p> <p>[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]</p> <p>Sponges, fabric, wood, and paper shall not be cleaned.</p>	

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: FLUSH/BLOWOUT BOOTH 1960

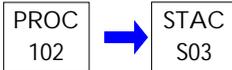
Source Capacity/Throughput:

18.800 Lbs/HR

TRICH.ETHYLENE

3.000 Lbs/HR

ACETONE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this flush/blow booth shall not exceed 4.1 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall monitor the amount and type of solvent used by this source on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall record the amount and type of solvent used by this source on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the site-wide 12 consecutive month VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Spills shall be wiped up immediately and the wipe rags shall be stored in covered containers.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]



SECTION D. Source Level Requirements

Parts shall be drained for a minimum of fifteen (15) seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

All waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Sponges, fabric, wood, and paper shall not be cleaned.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

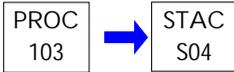
Source ID: 103

Source Name: LUBRIC. SPRAY BOOTH #6779

Source Capacity/Throughput:

18.400 Lbs/HR

TRICHL.ETHYLENE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

A. The VOC emissions, for this spray booth shall not exceed 15.0 tons in any 12 consecutive month period.

B. TCE shall not be used or processed in this equipment.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall monitor the amount of VOC-containing solvent used by this spray booth on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall record the amount of VOC-containing solvent used by this spray booth on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the VOC emission limit for each 12 consecutive month period.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

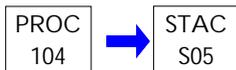
Source ID: 104

Source Name: LUBRIC. SPRAY BOOTH #1691

Source Capacity/Throughput:

18.400 Lbs/HR

TRICHL.ETHYLENE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

A. The VOC emissions, for this spray booth shall not exceed 9.0 tons in any 12 consecutive month period.

B. TCE shall not be used or processed in this equipment.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall monitor the amount of VOC-containing solvent used by this spray booth on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall record the amount of VOC-containing solvent used by this spray booth on a weekly basis, or when in use, and perform monthly calculations to demonstrate compliance with the VOC emission limit for each 12 consecutive month period.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

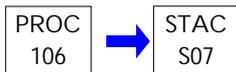
Source ID: 106

Source Name: PICKLE TANK #6143

Source Capacity/Throughput:

26.000 Lbs/HR

NITRIC/HF ACID

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The aggregate NOx emissions from this pickling tank, and sources 107, 108, 126, and 127 shall not exceed 4.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall record the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank each week, or when in use, and perform monthly calculations to demonstrate compliance with the 12 consecutive month NOx emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

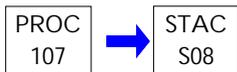


SECTION D. Source Level Requirements

Source ID: 107

Source Name: PICKLE TANK #6139

Source Capacity/Throughput: 26.000 Lbs/HR NITRIC/HF ACID



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The aggregate NOx emissions from this pickling tank, and sources 106, 108, 126, and 127 shall not exceed 4.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank each week, or when in use, and perform monthly calculations to demonstrate compliance with the 12 consecutive month NOx emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



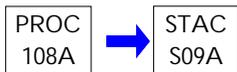
SECTION D. Source Level Requirements

Source ID: 108A

Source Name: PICKLE TANK #6129

Source Capacity/Throughput:

29.000 Lbs/HR



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The aggregate NOx emissions from this pickling tank, and Sources 106, 107, 126, and 127 shall not exceed 4.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank each week, or when in use, and perform monthly calculations to demonstrate compliance with the 12 consecutive month NOx emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

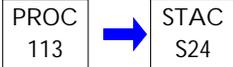
Source ID: 113

Source Name: SOLVENT CLEANER TANK #1291

Source Capacity/Throughput:

18.400 Lbs/HR

TRICHL.ETHYLENE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The aggregate VOC emissions from this source, and Source 149, shall not exceed 34.0 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the amount and type of solvent used by this source on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Daily records shall be maintained showing the dates of operation for this source.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the amount and type of solvent used by this source on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the site-wide 12 consecutive month VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

005 [25 Pa. Code §129.63]

Degreasing operations

This solvent cleaning tank shall be equipped with:

- (a) A cover to prevent the evaporation of solvent during periods of non-use.
- (b) Equipment for draining cleaned parts.
- (c) A permanent, conspicuous label summarizing the operating requirements.

006 [25 Pa. Code §129.63]



SECTION D. Source Level Requirements

Degreasing operations

This solvent cleaning tank shall be operated in accordance with the following requirements:

- (a) Do not dispose of waste solvent or transfer it to another party, such that greater than 20% for the waste solvent (by weight) can evaporate into the atmosphere; store waste solvent only in covered containers.
- (b) Close cleaning tank cover whenever not handling parts in the cleaner.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Sponges, fabric, wood, and paper shall not be cleaned.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The solvent level shall not exceed the fill line.

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Spills shall be wiped up immediately and the wipe rags shall be stored in covered containers.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall ensure that no splashing occurs inside the tank while the air- or pump-agitated solvent bath is in use.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

All waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)

[Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

When the cover is open, this degreaser shall not be exposed to drafts greater than 132 feet/minute, as measured between 3.3 and 6.6 feet upwind and at the same elevation as the tank lip.



SECTION D. Source Level Requirements

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Parts shall be drained for a minimum of fifteen (15) seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

If a flexible hose or flushing device is used, flushing shall be performed only within the freeboard area.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The permittee shall employ a tightly fitting cover that shall be closed at all times except during parts entry and removal and a freeboard ratio of 0.75 or greater.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

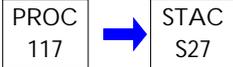
Source ID: 117

Source Name: SOLVENT CLEANER TANK #6836

Source Capacity/Throughput:

18.400 Lbs/HR

TRICHL.ETHYLENE

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3.3 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall monitor the amount and type of solvent used by this source on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.511]

[Monitoring and related recordkeeping and reporting requirements.](#)

The permittee shall record the amount and type of solvent used by this source on a weekly basis when in use, and perform monthly calculations to demonstrate compliance with the site-wide 12 consecutive month VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Spills shall be wiped up immediately and the wipe rags shall be stored in covered containers.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch cold cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]



SECTION D. Source Level Requirements

Parts shall be drained for a minimum of fifteen (15) seconds or until dripping has stopped, whichever is longer. Parts having cavities or blind holes shall be tipped or rotated while draining.

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

All waste solvent shall be collected and stored in closed containers. The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

Sponges, fabric, wood, and paper shall not be cleaned.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.462]
Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch cold cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

The solvent level shall not exceed the fill line.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

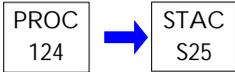
Source ID: 124

Source Name: LUBRICATION SPRAY BOOTH #1976

Source Capacity/Throughput:

18.400 Lbs/HR

TRICH.ETHYLENE



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions, for this spray booth shall not exceed 6.9 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall monitor the amount of VOC-containing materials used by this spray booth on a weekly basis when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The permittee shall record the amount of VOC-containing materials used by this spray booth on a weekly basis when in use, and perform calculations on a monthly basis to demonstrate compliance with the 12 consecutive month period.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall operate and maintain this source in accordance with manufacturer's specifications and good air pollution control practices.



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

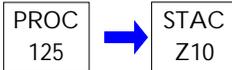
Source ID: 125

Source Name: GENERAL SOURCE FUG EMIS

Source Capacity/Throughput:

18.000 Lbs/HR

VARIOUS VOCs

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

VOC emissions from this source shall not exceed 13.8 tons in any 12 consecutive period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the amount and type of cleaning solvent used on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall record the monitored amount and type of cleaning solvent used on a weekly basis, and perform monthly calculations to demonstrate compliance with the VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall operate this source in accordance with good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.503]

[Application information.](#)

This source consists of the following individual sources:

- OD Koters - mechanical application of a thin coating of Superkote prior to drawing operations.
- Hand application of Superkote to the outside of tubing prior to drawing operations.
- Material handling.



SECTION D. Source Level Requirements

- Waste handling.
- Plant housekeeping.

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

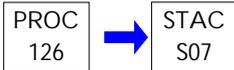
Source ID: 126

Source Name: PICKLE TANK #6132

Source Capacity/Throughput:

2.600 Lbs/HR

NITRIC/HF ACID

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The aggregate NOx emissions from this pickling tank, and sources 106, 107, 108, and 127 shall not exceed 4.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall record the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank each week, or when in use, and perform monthly calculations to demonstrate compliance with the 12 consecutive month NOx emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

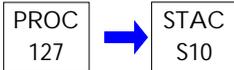
Source ID: 127

Source Name: PICKLE TANK #6021

Source Capacity/Throughput:

2.600 Lbs/HR

NITRIC/HF ACID

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The aggregate NOx emissions from this pickling tank, and sources 106, 107, 108, and 126 shall not exceed 4.5 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall monitor the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall record the amount of nitric and hydrofluoric acid added to and/or removed from this pickling tank each week, or when in use, and perform monthly calculations to demonstrate compliance with the 12 consecutive month NOx emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***

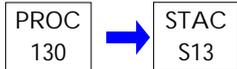


SECTION D. Source Level Requirements

Source ID: 130

Source Name: AIR STRIPPING COLUMN #3528

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the flow of water treated by this equipment monthly and utilize the most recent TCE concentration values to calculate the VOC emissions on a monthly basis.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the calculated TCE concentrations and flow rates each month, and calculate the VOC emissions on a monthly basis to demonstrate compliance with the VOC limits.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

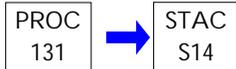
*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 131

Source Name: AIR STRIPPING COLUMN #3542

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the flow of water treated by this equipment on a monthly basis and utilize the most recent TCE concentration values to calculate the VOC emissions.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the calculated TCE concentrations on a monthly basis, to demonstrate compliance with the 12 consecutive month VOC limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

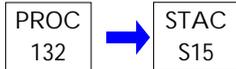
*** Permit Shield in Effect. ***

**SECTION D. Source Level Requirements**

Source ID: 132

Source Name: AIR STRIPPING COLUMN #3543

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the flow of water treated by this equipment on a monthly basis and utilize the most recent TCE concentration values to calculate the VOC emissions.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall record the calculated TCE concentrations on a monthly basis, to demonstrate compliance with the 12 consecutive month VOC limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

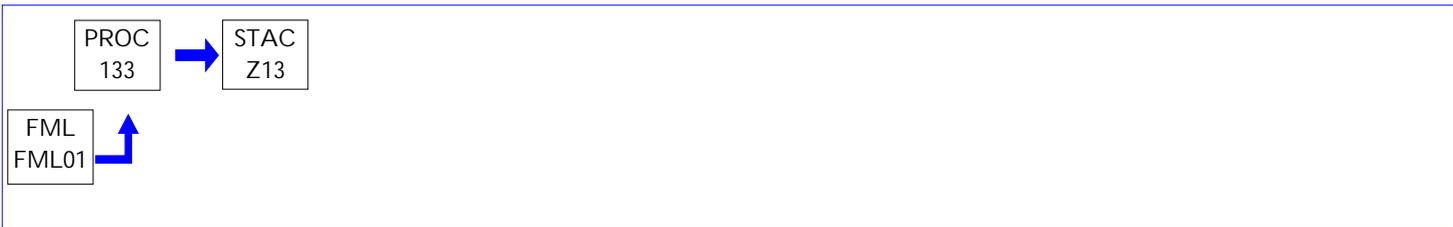
Source ID: 133

Source Name: ANNEALING FURNACES (2)

Source Capacity/Throughput:

1.600 MCF/HR

Natural Gas



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]
 Operating permit terms and conditions.
 [Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91.]

The VOC emissions from this source shall not exceed 3 lbs/hr, 15 lbs/day, or 2.7 tons in any 12 consecutive month period, whichever is more stringent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]
 Operating permit terms and conditions.
 The amount of natural gas usage shall be monitored monthly.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]
 Operating permit terms and conditions.
 The natural gas usage shall be recorded on a monthly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

Source ID: 141

Source Name: SOLVENT CLEANER TANK #6172

Source Capacity/Throughput:

1.000 Lbs/HR

ISOPROPYL ALCOHOL



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the isopropyl alcohol additions to this cleaning tank, on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the isopropyl alcohol additions to this cleaning tank, on a weekly basis, or when in use, for use in demonstrating compliance with the site-wide VOC emission limit.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

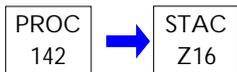
Source ID: 142

Source Name: SOLVENT CLEANING TANK #6169

Source Capacity/Throughput:

1.000 Lbs/HR

ISOPROPYL ALCOHOL



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

001 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the isopropyl alcohol additions to this cleaning tank, on a weekly basis, or when in use.

IV. RECORDKEEPING REQUIREMENTS.

002 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the isopropyl alcohol additions to this cleaning tank, on a weekly basis, or when in use, for use in demonstrating compliance with the site-wide VOC emission limit..

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

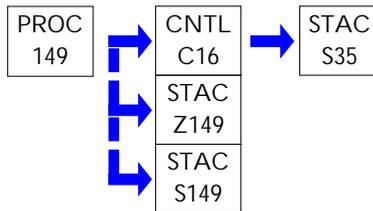
Source ID: 149

Source Name: VAPOR DEGREASER #661

Source Capacity/Throughput:

80.000 Lbs/HR

TRICHLOROETHYLENE



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Aggregate VOC emissions from this degreaser and Source 113 shall not exceed 34.0 tons in any 12 consecutive month period.

002 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Total VOC emissions from this degreaser shall not exceed either of the following:

(a) 15.0 lbs/hr.

(b) 20.6 tons in any 12 consecutive month period.

Fuel Restriction(s).

003 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

A. The permittee is authorized to use Trichloroethylene (TCE), and/or a non hazardous air pollutant (HAP) VOC solvent (n-propyl bromide or equivalent) in the vapor degreaser.

B. There shall be no increase in HAP emissions under this modified Operating Permit.

C. Should the permittee opt to discontinue the use of TCE altogether in the vapor degreaser, the permittee shall notify the Department. The Department may revise the applicable conditions pertaining to the use of TCE and those written under the MACT regulations to make the discontinuation enforceable.

Control Device Efficiencies Restriction(s).

004 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The minimum efficiency of the carbon adsorption system shall be 90% capture and 90% control.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The air flow, as measured across the freeboard area, or inside the machine, shall not exceed 50 ft/min (15.2 m/min).

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)[Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

**SECTION D. Source Level Requirements**

A. The permittee shall comply with the MACT standards for halogenated solvent degreasers through the use of the following control combinations:

- (a) Freeboard ratio of 1.0, or greater.
- (b) Superheated vapor.
- (c) Reduced room draft.

B. When using non-halogenated solvents, the MACT standards for halogenated solvent degreasers shall not apply to this source, however, the permittee shall continue to use the following control combinations:

- (a) Freeboard ratio of 1.0, or greater.
- (b) Reduced room draft.

II. TESTING REQUIREMENTS.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.466]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)
[Monitoring procedures](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall test for reduced room draft across the freeboard area or inside the machine to demonstrate compliance with the air flow limit, as stated in Condition #007, for this degreaser.

The permittee shall conduct an initial monitoring test and, thereafter, monthly monitoring tests of the wind-speed within the enclosure by determining the direction of the wind current in the enclosure by slowly rotating a velometer inside the entrance to the enclosure until the maximum speed is located. The maximum wind speed shall be recorded.

The permittee shall also perform a monthly visual inspection of the enclosure for cracks, holes, and defects.

III. MONITORING REQUIREMENTS.

008 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.466]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)
[Monitoring procedures](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

When using TCE in the vapor degreaser # 661, on a weekly basis, the permittee shall monitor the temperature at the center of the superheated solvent vapor zone while the degreaser is in the idling mode.

IV. RECORDKEEPING REQUIREMENTS.

009 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

When using TCE in the vapor degreaser # 661, the permittee shall record the monitored temperature across the vapor zone, while the machine is idling.

010 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The permittee shall perform monthly emission calculations for use in demonstrating compliance with the VOC emission limits for this source.

SECTION D. Source Level Requirements

Emissions resulting from bypassing the carbon adsorber shall be counted towards determining compliance with the emission limits for this source.

011 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following information shall be recorded for each bypass of the carbon adsorber:

- (a) The date and duration of the bypass.
- (b) The amount and type of VOCs emitted during the bypass.
- (c) Actions taken to control the bypass and to abate future occurrences.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.467]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Recordkeeping requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The following records, for this degreaser, shall be retained for a period of at least five (5) years:

- (a) All results of the control device monitoring required under 40 CFR § 63.466.
- (b) Replacement parts and repairs.
- (c) Estimates of annual solvent consumption.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.467]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Recordkeeping requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The following records shall be retained for the lifetime of this degreaser:

- (a) Owners manuals for this degreaser.
- (b) The date of installation.
- (c) Records of the halogenated HAP solvent content for each solvent used.

V. REPORTING REQUIREMENTS.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

When using TCE, the permittee shall submit an exceedance report for this degreaser to the EPA Administrator on a semi-annual basis. The EPA has discretion to require more frequent reporting as necessary. These reports shall cover the calendar periods ending June, and December, of each year, shall be post marked within thirty (30) days of the end of the reporting period, and shall state, at a minimum, the following items, for all periods of TCE use during the reporting period:

- (a) Actions taken to maintain compliance.
- (b) Exceedances and the associated corrective action.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements](#)



SECTION D. Source Level Requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

When using TCE, the permittee shall submit annual reports from the previous calendar year (January through December) to the EPA concerning the amount of degreaser usage. These reports are due February 1, of the following year, and shall include the following information for control combinations and idling emissions, for all periods of TCE use during the reporting period:

- (a) A signed statement from a company official (owner or his designee) certifying that degreaser operators have been properly trained, and can pass a written exam on its operation and respective control devices.
- (b) An estimate of the annual TCE consumption for this degreaser during the reporting period.

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

A copy of the manufacturer's specifications for the maintenance and operation of the vapor degreaser shall be kept on file at the facility, and shall be made available to the Department upon request.

017 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

The following methods shall be used to monitor the condition of the carbon in the adsorption system:

- (a) Recording the weekly quantity of type of solvent dispensed and recovered.
- (b) Annual analysis of the carbon effectiveness in the adsorber.

018 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

[Additional authority for this condition is also derived from 40 CFR § 63.466.]

When using TCE in the vapor degreaser # 661, the temperature across the vapor zone shall not be less than 198°F, when idling.

019 [25 Pa. Code §127.441]

[Operating permit terms and conditions.](#)

Exhaust from this source shall be directed to the carbon adsorption system or the bypass stack.

020 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall adhere to the following work practice standards:

- (a) The solvent level shall not exceed the fill line.
- (b) Sponges, wood, fabric, and paper products shall not be cleaned.
- (c) The operating conditions under which the wind speed was demonstrated to be less than 15.2 m/s (50 ft/s) shall be maintained.
- (d) Threaded or leakproof couplings shall be used when adding or draining solvent from this degreaser, and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.
- (e) On startup, the primary condenser shall be turned on before the sump heater.
- (f) On shutdown, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

**SECTION D. Source Level Requirements**

- (g) The parts basket, or parts being cleaned, shall not occupy more than 50 percent of the solvent/air interface area unless the parts are introduced at a speed of 0.9 meters/minute (3.0 ft/min) or less.
- (h) Any spraying operations shall be done within the vapor zone or within a section of the degreaser that is not directly exposed to the ambient air.
- (i) Parts shall be rotated so that the solvent drains from them freely. Parts having cavities shall be tipped or rotated before being removed from the degreaser.
- (j) Parts shall not be removed until dripping has stopped.
- (k) The degreaser and controls shall be maintained as recommended by the manufacturer, or other alternatives that are approved by the Department.
- (l) Each operator shall complete and pass the applicable sections of the test of degreasing operations, found in Appendix B, of 40 CFR 63, Subpart T.
- (m) Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. These containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.

021 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)
[Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The degreaser shall be equipped with the following:

- (a) A parts handling system capable of moving parts, or parts baskets, at a speed of 11 feet/minute, or less, from the initial loading of parts through removal of cleaned parts.
- (b) A device that shuts off the sump heat if the vapor level rises above the height of the primary condenser, or if the sump liquid solvent level drops to the sump heater coils.
- (c) A primary condenser.

022 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)
[Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

When using TCE in the vapor degreaser # 661, if the room draft, and superheated vapor conditions are not met, then the permittee shall determine if an exceedance has occurred using the criteria found in 40 CFR § 63.463(e)(3)(i) and (ii).

023 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning](#)
[Batch vapor and in-line cleaning machine standards](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee shall determine the following during each monitoring period when TCE is being used in the degreaser.:

- (a) Temperature of the solvent vapor at the center of the superheated vapor zone is at least 10°F above the solvent's boiling point.
- (b) Ensure that the manufacturer's specifications for determining the minimum proper dwell time within the superheated vapor system is followed.
- (c) Ensure that the parts remain within the superheated vapor for at least the minimum proper dwell time.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

*** Permit Shield in Effect. ***



SECTION D. Source Level Requirements

Source ID: 160

Source Name: EMERGENCY GENERATOR

Source Capacity/Throughput:

328.000 CF/HR

NATURAL GAS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

Particulate matter emissions from this source shall not exceed 0.04 gr/dscf in the effluent gas.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Operation Hours Restriction(s).

003 [25 Pa. Code §129.93]

Presumptive RACT emission limitations

The hours of operation shall not exceed 500 in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall monitor the hours of operation on a weekly basis.

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall record the hours of operation on a weekly basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

*** Permit Shield in Effect. ***



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



SECTION F. Emission Restriction Summary.

Source Id	Source Description
031	TITUSVILLE BOILER #2166
Emission Limit	
1.200 Lbs/MMBTU	SO2
0.400 Lbs/MMBTU	Particulate Matter
2.700 Tons/Yr	VOC
3.000 Lbs/Hr	VOC
15.000 Lbs/Day	VOC
032	TITUSVILLE BOILER #2526
Emission Limit	
1.200 Lbs/MMBTU	SO2
0.400 Lbs/MMBTU	Particulate matter
2.700 Tons/Yr	VOC
3.000 Lbs/Hr	VOC
15.000 Lbs/Hr	VOC
101	FLUSH/BLOWOUT BOOTH #1603
Emission Limit	
7.200 Tons/Yr	VOC
102	FLUSH/BLOWOUT BOOTH 1960
Emission Limit	
4.100 Tons/Yr	VOC
103	LUBRIC. SPRAY BOOTH #6779
Emission Limit	
15.000 Tons/Yr	VOC
104	LUBRIC. SPRAY BOOTH #1691
Emission Limit	
9.000 Tons/Yr	VOC
106	PICKLE TANK #6143
Emission Limit	
4.500 Tons/Yr	5 tank total
	NOX
107	PICKLE TANK #6139
Emission Limit	
4.500 Tons/Yr	5 tank total
	NOX
108A	PICKLE TANK #6129
Emission Limit	
4.500 Tons/Yr	5 tank total
	NOX



SECTION F. Emission Restriction Summary.

Source Id	Source Description			Pollutant
113	SOLVENT CLEANER TANK #1291			
Emission Limit				Pollutant
34.000	Tons/Yr	Source 113 and 149 total		VOC
117	SOLVENT CLEANER TANK #6836			
Emission Limit				Pollutant
3.300	Tons/Yr			VOC
124	LUBRICATION SPRAY BOOTH #1976			
Emission Limit				Pollutant
6.900	Tons/Yr			VOC
125	GENERAL SOURCE FUG EMIS			
Emission Limit				Pollutant
13.800	Tons/Yr			VOC
126	PICKLE TANK #6132			
Emission Limit				Pollutant
4.500	Tons/Yr	5 tank total		NOX
127	PICKLE TANK #6021			
Emission Limit				Pollutant
4.500	Tons/Yr	5 tank total		NOX
130	AIR STRIPPING COLUMN #3528			
Emission Limit				Pollutant
2.700	Tons/Yr			VOC
3.000	Lbs/Hr			VOC
15.000	Lbs/Day			VOC
131	AIR STRIPPING COLUMN #3542			
Emission Limit				Pollutant
2.700	Tons/Yr			VOC
3.000	Lbs/Hr			VOC
15.000	Lbs/Day			VOC
132	AIR STRIPPING COLUMN #3543			
Emission Limit				Pollutant
2.700	Tons/Yr			VOC
3.000	Lbs/Hr			VOC
15.000	Lbs/Day			VOC



SECTION F. Emission Restriction Summary.

Source Id	Source Description		
133	ANNEALING FURNACES (2)		
Emission Limit			Pollutant
2.700	Tons/Yr		VOC
3.000	Lbs/Hr		VOC
15.000	Lbs/Day		VOC
149	VAPOR DEGREASER #661		
Emission Limit			Pollutant
15.000	Lbs/Hr		VOC
20.600	Tons/Yr		VOC
34.000	Tons/Yr	Source 113 and 149 total	VOC
160	EMERGENCY GENERATOR		
Emission Limit			Pollutant
500.000	PPMV		SO2
0.040	gr/DRY FT3	Particulate matter	TSP

Site Emission Restriction Summary

Emission Limit		Pollutant
79.200 Tons/Yr		NOX
166.000 Tons/Yr		VOC

**SECTION G. Miscellaneous.**

(A) The following previously issued Title V Operating Permit serves as the basis for certain terms and conditions set forth in this renewal TV Permit:

OP-46-0020,
 OP-46-0020B, and
 PA-46-0020C.
 TVOP-46-00020 (with amendments cited below)

(B) The site inventory list, headings and captions set forth in this permit, including specifically the identification of a "Source Capacity/Throughput" for individual sources in Sections A and D of the permit, are for informational purposes only and do not constitute enforceable limitations.

(C) The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

OFFICE

- Main office air conditioner.
- Various window air conditioning units.
- Portable electric space heaters.
- Blue print copy machine.
- Various copying machines.
- Various fax machines.
- Various computers and printers.
- Miscellaneous office supplies, such as: "White out", felt tip markers, and pens, etc.
- Miscellaneous cleaners and janitorial supplies.
- Chemical test lab operations and associated small quantities of lab chemicals.

MANUFACTURING OPERATIONS

- Various types of portable fire extinguishers.
- Various cutting, grinding and polishing machines through out the facility, both with and without control devices, not to include those sources already covered by this Title V permit.
- Local, non-vented dust and fume collectors for die room operations
- Various shop vacuums.
- Compressed gas (plant air, hydrogen, nitrogen, and argon) at tube blow out stations.
- Power floor sweepers.
- Storage cylinders for the following (helium, argon, nitrogen and hydrogen).
- Electrically-fired heat treating furnaces.
- Ink-jet identification marker.
- Non-destructive testing operations.
- Various types of tube processing equipment, including: draw benches, tagging machines, cutting machines (not covered in other parts of this operating permit) roll straighteners, overhead cranes, and miscellaneous finishing equipment.
- Acid House Fugitacs (Carbon bay tanks, Middle bay tanks, Finish bay, and Speciality metals bay).
- Eight (8) Radiac saws (Weld Mill, 288, 1479, 1869, 631, 6627, 58, and 1424), and their associated control devices.
- Machine Shop and control device.
- Weld Mill Cutting (1102) and control device.
- Grinder (1395) and control device.

MAINTENANCE OPERATIONS

- Various maintenance activities and associated tools and equipment
- Machine shop equipment including: lathes, boring machines, band and reciprocating saws (not covered in other parts of this operating permit) bench grinders, drill presses, and various other types of tool room equipment used for routine maintenance.
- Safety kleen and equivalent parts cleaners.



SECTION G. Miscellaneous.

- Cans of spray paint used for touch-up spray painting.
- Structural preparation and painting operations.
- Carpenter and box shop operations.
- Demolition and disposal of various equipment and structures.

MISCELLANEOUS OPERATIONS

- Company motor vehicles, plus a farm tractor, mobile crane and forklifts
- Gasoline powered fire pump.
- Small confidential document shredder.
- Natural gas direct-fired space heaters.
- Mixing tank for boiler additives.
- Various bulk storage tanks, including: liquid hydrogen, liquid nitrogen, propane, #6 fuel oil (20,000 gal), kerosene (550 and 1,000 gal), gasoline tank (500 gal), nitric acid, and mixed acid storage.
- Sewage pumping station.
- Sewage treatment plant.
- Sewage ejectors.
- Sewage ejector pumps.
- Plant ventilation fans and blowers.
- Miscellaneous confined space blowers for pits, pipelines, and vaults.
- Pilot in-situ vapor extraction
- QA/QC operations involving hand spraying of Spot-check developer and penetrant onto various metal products.
- HGM-2000 hydrogen generator
- Tank #6169 (55-gallon isopropyl alcohol tank). Estimated VOC = 0.4 ton/yr
- Prompt clean of small, contained spills. Estimated VOC = 0.1 ton/yr
- Small nitric and hydrochloric acid passivation tanks and associated 55-gallon isopropyl alcohol tank). Estimated VOC = 0.05 ton/yr and 0.04 ton/yr, respectively

(D) August 2002. The permit was amended to address the appeal of the issued Title V operating permit, and to incorporate changes brought on Plan Approval PA-46-0020B.

(E) January 2003. The Title V permit was amended to incorporate a new batch vapor degreaser and carbon adsorption control system from Plan Approval PA-46-0020C.

(F) March 2003. The permit was amended to address two typographical errors in Source #104.

(G) April 2005. APS - 547610, AUTH ID - 585179. Amendment to address a change of ownership from Superior Tube Company, Tax ID 23-118550-1 to Superior Tube Company, Inc., Tax ID 86-1118863-1. Additional changes include a bypass stack for the vapor degreaser (Source 149), and the removal of Solvent Cleaner Tank 6516 (Source 116).

March 2007. Source 119 removed from the permit as per letter from the permittee.

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February 13, 2008. APS No. 345205; Authorization No. 712646: Title V Minor Operating Permit Modification.



***** End of Report *****

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2008
 Units: ppbv
 Analysis: Scan

Notes:
 Non-detects & data <0.005 ppbv reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages not calculated if %<MDL is 50% or greater
 Samples are collected over a 24-hour period
 Analysis uses EPA Method TO-15

MDL - Method Detection Limit
NUM - No. of Valid Samples
AVG - Average
SAMP% - Valid Samples / Possible Samples
MIN - Minimum **MAX** - Maximum
STD - Standard Deviation

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<MDL=.5MDL

Compounds	MDL	NUM	#<MDL	%<MDL	AVG	SAMP%	MIN	MAX	STD
1,1,1-Trichloroethane	0.02	26	26	100		70	0.01	0.01	0.00
1,1,2,2-Tetrachloroethane	0.02	26	26	100		70	0.01	0.01	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.02	26	0	0	0.07	70	0.05	0.08	0.01
1,1,2-Trichloroethane	0.04	26	26	100		70	0.02	0.02	0.00
1,1-Dichloroethane	0.02	26	26	100		70	0.01	0.01	0.00
1,1-Dichloroethene	0.04	26	26	100		70	0.02	0.02	0.00
1,2,4-Trichlorobenzene	0.02	26	26	100		70	0.01	0.01	0.00
1,2,4-Trimethylbenzene	0.02	26	25	96		70	0.01	0.06	0.01
1,2-Dibromoethane	0.04	26	26	100		70	0.02	0.02	0.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.02	26	26	100		70	0.01	0.01	0.00
1,2-Dichlorobenzene	0.02	26	26	100		70	0.01	0.01	0.00
1,2-Dichloroethane	0.02	26	26	100		70	0.01	0.01	0.00
1,2-Dichloropropane	0.04	26	26	100		70	0.02	0.02	0.00
1,3,5-Trimethylbenzene	0.02	26	26	100		70	0.01	0.01	0.00
1,3-Butadiene	0.08	26	26	100		70	0.04	0.04	0.00
1,3-Dichlorobenzene	0.02	26	26	100		70	0.01	0.01	0.00
1,4-Dichlorobenzene	0.02	26	26	100		70	0.01	0.01	0.00
1-Ethyl-4-methyl benzene	0.02	26	26	100		70	0.01	0.01	0.00
2-Butanone (MEK)	0.22	26	1	4	1.21	70	0.11	9.20	1.72
2-Hexanone	0.20	26	23	88		70	0.10	2.80	0.54
2-Methoxy-2-methyl propane (MTBE)	0.02	26	26	100		70	0.01	0.01	0.00
4-Methyl-2-pentanone (MIBK)	0.22	26	25	96		70	0.11	0.81	0.16
Acetone	0.21	26	0	0	7.47	70	1.00	54.00	10.05
Benzene	0.04	26	0	0	0.18	70	0.08	0.48	0.09
Bromodichloromethane	0.04	26	26	100		70	0.02	0.02	0.00
Bromoform	0.02	26	26	100		70	0.01	0.01	0.00
Bromomethane	0.04	26	25	96		70	0.02	0.11	0.02
Carbon disulfide	0.20	26	25	96		70	0.10	0.33	0.07
Carbon tetrachloride	0.02	26	0	0	0.08	70	0.06	0.13	0.01
Chlorobenzene	0.04	26	26	100		70	0.02	0.02	0.00
Chloroethane	0.04	26	22	85		70	0.02	0.10	0.03
Chloroethene	0.04	26	26	100		70	0.02	0.02	0.00
Chloroform	0.02	26	23	88		70	0.01	0.03	0.01
Chloromethane	0.04	26	0	0	0.50	70	0.36	0.67	0.09
cis-1,2-Dichloroethene	0.04	26	26	100		70	0.02	0.02	0.00
cis-1,3-Dichloro-1-propene	0.04	26	26	100		70	0.02	0.02	0.00
Cyclohexane	0.02	26	22	85		70	0.01	0.05	0.01
Dibromochloromethane	0.04	26	26	100		70	0.02	0.02	0.00
Dichlorodifluoromethane	0.02	26	0	0	0.45	70	0.36	0.56	0.06
Ethylbenzene	0.04	26	24	92		70	0.02	0.06	0.01
Hexachloro-1,3-butadiene	0.02	26	26	100		70	0.01	0.01	0.00
m & p- Xylene	0.06	26	15	58		70	0.03	0.19	0.05
Methylene chloride	0.04	26	5	19	0.10	70	0.02	0.18	0.06
n-Heptane	0.02	26	4	15	0.07	70	0.01	0.16	0.04
n-Hexane	0.02	26	2	8	0.08	70	0.01	0.25	0.05
o-Xylene	0.04	26	22	85		70	0.02	0.07	0.02
Propene	0.20	26	0	0	0.95	70	0.43	2.30	0.45
Styrene	0.02	26	26	100		70	0.01	0.01	0.00
Tetrachloroethene	0.04	26	23	88		70	0.02	0.05	0.01
Tetrahydrofuran	0.02	26	19	73		70	0.01	0.30	0.08
Toluene	0.04	26	0	0	0.24	70	0.05	0.69	0.13
trans-1,2-Dichloroethene	0.04	26	26	100		70	0.02	0.02	0.00
trans-1,3-Dichloro-1-propene	0.04	26	26	100		70	0.02	0.02	0.00
Trichloroethylene (TCE)	0.02	26	16	62		70	0.01	0.28	0.06
Trichlorofluoromethane	0.02	26	0	0	0.24	70	0.18	0.29	0.03

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2008
 Units: ppbv
 Analysis: Scan

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Compounds	1/1	1/6	1/7	1/13	1/19	1/25	1/31	2/2	2/6
1,1,1-Trichloroethane	0		0	0	0	0	0		0
1,1,2,2-Tetrachloroethane	0		0	0	0	0	0		0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071		0.072	0.066	0.067	0.082	0.079		0.063
1,1,2-Trichloroethane	0		0	0	0	0	0		0
1,1-Dichloroethane	0		0	0	0	0	0		0
1,1-Dichloroethene	0		0	0	0	0	0		0
1,2,4-Trichlorobenzene	0		0	0	0	0	0		0
1,2,4-Trimethylbenzene	0		0.063	0	0	0	0		0
1,2-Dibromoethane	0		0	0	0	0	0		0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0		0	0	0	0	0		0
1,2-Dichlorobenzene	0		0	0	0	0	0		0
1,2-Dichloroethane	0		0	0	0	0	0		0
1,2-Dichloropropane	0		0	0	0	0	0		0
1,3,5-Trimethylbenzene	0		0	0	0	0	0		0
1,3-Butadiene	0		0	0	0	0	0		0
1,3-Dichlorobenzene	0		0	0	0	0	0		0
1,4-Dichlorobenzene	0		0	0	0	0	0		0
1-Ethyl-4-methyl benzene	0		0	0	0	0	0		0
2-Butanone (MEK)	2.3		0.32	0.15	0.3	0.32	0.89		0.68
2-Hexanone	0.35		0	0	0	0	0		0
2-Methoxy-2-methyl propane (MTBE)	0		0	0	0	0	0		0
4-Methyl-2-pentanone (MIBK)	0		0	0	0	0	0		0
Acetone	8.3		2.3	1	1.6	2.2	3.8		3.8
Benzene	0.34		0.48	0.22	0.18	0.2	0.22		0.17
Bromodichloromethane	0		0	0	0	0	0		0
Bromoform	0		0	0	0	0	0		0
Bromomethane	0		0	0	0	0	0		0
Carbon disulfide	0		0	0	0	0	0.18		0
Carbon tetrachloride	0.13		0.077	0.07	0.074	0.083	0.086		0.077
Chlorobenzene	0		0	0	0	0	0		0
Chloroethane	0		0	0	0	0	0		0
Chloroethene	0		0	0	0	0	0		0
Chloroform	0		0	0	0	0	0		0
Chloromethane	0.43		0.54	0.37	0.41	0.56	0.56		0.44
cis-1,2-Dichloroethene	0		0	0	0	0	0		0
cis-1,3-Dichloro-1-propene	0		0	0	0	0	0		0
Cyclohexane	0		0.046	0	0	0	0		0
Dibromochloromethane	0		0	0	0	0	0		0
Dichlorodifluoromethane	0.44		0.45	0.41	0.42	0.55	0.55		0.42
Ethylbenzene	0		0.061	0	0	0	0		0
Hexachloro-1,3-butadiene	0		0	0	0	0	0		0
m & p- Xylene	0		0.19	0	0	0	0		0.082
Methylene chloride	0		0.15	0	0	0	0		0.17
n-Heptane	0.062		0.11	0.059	0	0	0		0.057
n-Hexane	0.12		0.25	0.086	0.072	0.044	0.051		0.12
o-Xylene	0		0.073	0	0	0	0		0
Propene	1.6		2.3	1.1	0.76	0.82	1		1.1
Styrene	0		0	0	0	0	0		0
Tetrachloroethene	0		0	0	0	0	0		0
Tetrahydrofuran	0		0	0	0	0	0		0
Toluene	0.15		0.69	0.18	0.13	0.15	0.21		0.28
trans-1,2-Dichloroethene	0		0	0	0	0	0		0
trans-1,3-Dichloro-1-propene	0		0	0	0	0	0		0
Trichloroethylene (TCE)	0		0	0	0.081	0	0		0.055
Trichlorofluoromethane	0.24		0.25	0.23	0.23	0.29	0.28		0.22

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2008
 Units: ppbv
 Analysis: Scan

DRAFT

Compounds	2/12	2/18	2/24	3/1	3/7	3/13	3/19	3/24	3/25
1,1,1-Trichloroethane	0		0	0	0	0	0	0	
1,1,2,2-Tetrachloroethane	0		0	0	0	0	0	0	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.08		0.055	0.054	0.07	0.062	0.065	0.064	
1,1,2-Trichloroethane	0		0	0	0	0	0	0	
1,1-Dichloroethane	0		0	0	0	0	0	0	
1,1-Dichloroethene	0		0	0	0	0	0	0	
1,2,4-Trichlorobenzene	0		0	0	0	0	0	0	
1,2,4-Trimethylbenzene	0		0	0	0	0	0	0	
1,2-Dibromoethane	0		0	0	0	0	0	0	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0		0	0	0	0	0	0	
1,2-Dichlorobenzene	0		0	0	0	0	0	0	
1,2-Dichloroethane	0		0	0	0	0	0	0	
1,2-Dichloropropane	0		0	0	0	0	0	0	
1,3,5-Trimethylbenzene	0		0	0	0	0	0	0	
1,3-Butadiene	0		0	0	0	0	0	0	
1,3-Dichlorobenzene	0		0	0	0	0	0	0	
1,4-Dichlorobenzene	0		0	0	0	0	0	0	
1-Ethyl-4-methyl benzene	0		0	0	0	0	0	0	
2-Butanone (MEK)	0.32		0.64	0.4	0.32	2.2	0.89	0.28	
2-Hexanone	0		0	0	0	0.3	0	0	
2-Methoxy-2-methyl propane (MTBE)	0		0	0	0	0	0	0	
4-Methyl-2-pentanone (MIBK)	0		0	0	0	0	0	0	
Acetone	1.5		4.5	2	1.8	8	4	2.9	
Benzene	0.33		0.18	0.087	0.23	0.18	0.18	0.16	
Bromodichloromethane	0		0	0	0	0	0	0	
Bromoform	0		0	0	0	0	0	0	
Bromomethane	0		0	0	0	0	0	0	
Carbon disulfide	0		0	0	0	0	0	0	
Carbon tetrachloride	0.12		0.064	0.063	0.083	0.076	0.081	0.077	
Chlorobenzene	0		0	0	0	0	0	0	
Chloroethane	0		0	0	0	0	0	0	
Chloroethene	0		0	0	0	0	0	0	
Chloroform	0		0	0	0.02	0	0	0	
Chloromethane	0.43		0.36	0.4	0.46	0.4	0.51	0.47	
cis-1,2-Dichloroethene	0		0	0	0	0	0	0	
cis-1,3-Dichloro-1-propene	0		0	0	0	0	0	0	
Cyclohexane	0		0	0	0	0	0	0	
Dibromochloromethane	0		0	0	0	0	0	0	
Dichlorodifluoromethane	0.47		0.36	0.36	0.46	0.41	0.43	0.43	
Ethylbenzene	0		0	0	0	0	0	0	
Hexachloro-1,3-butadiene	0		0	0	0	0	0	0	
m & p- Xylene	0		0	0	0.083	0	0.087	0	
Methylene chloride	0.05		0.052	0.048	0.18	0.084	0.15	0.091	
n-Heptane	0.037		0.021	0.029	0.16	0.097	0.08	0.068	
n-Hexane	0.096		0.03	0	0.14	0.091	0.12	0.046	
o-Xylene	0		0	0	0	0	0	0	
Propene	0.8		0.9	0.54	1.2	1.1	0.9	0.9	
Styrene	0		0	0	0	0	0	0	
Tetrachloroethene	0		0	0	0	0	0.042	0	
Tetrahydrofuran	0		0	0	0	0	0	0	
Toluene	0.13		0.13	0.046	0.28	0.21	0.25	0.14	
trans-1,2-Dichloroethene	0		0	0	0	0	0	0	
trans-1,3-Dichloro-1-propene	0		0	0	0	0	0	0	
Trichloroethylene (TCE)	0		0.028	0	0	0.28	0	0	
Trichlorofluoromethane	0.28		0.19	0.18	0.24	0.21	0.24	0.23	

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2008
 Units: ppbv
 Analysis: Scan

DRAFT

Compounds	3/31	4/6	4/8	4/12	4/18	4/24	4/30	5/6	5/7
1,1,1-Trichloroethane	0	0				0		0	0
1,1,2,2-Tetrachloroethane	0	0				0		0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	0.063				0.062		0.078	0.078
1,1,2-Trichloroethane	0	0				0		0	0
1,1-Dichloroethane	0	0				0		0	0
1,1-Dichloroethene	0	0				0		0	0
1,2,4-Trichlorobenzene	0	0				0		0	0
1,2,4-Trimethylbenzene	0	0				0		0	0
1,2-Dibromoethane	0	0				0		0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0				0		0	0
1,2-Dichlorobenzene	0	0				0		0	0
1,2-Dichloroethane	0	0				0		0	0
1,2-Dichloropropane	0	0				0		0	0
1,3,5-Trimethylbenzene	0	0				0		0	0
1,3-Butadiene	0	0				0		0	0
1,3-Dichlorobenzene	0	0				0		0	0
1,4-Dichlorobenzene	0	0				0		0	0
1-Ethyl-4-methyl benzene	0	0				0		0	0
2-Butanone (MEK)	0.78	0.61				0.84		9.2	1.2
2-Hexanone	0	0				0		2.8	0
2-Methoxy-2-methyl propane (MTBE)	0	0				0		0	0
4-Methyl-2-pentanone (MIBK)	0	0				0		0.81	0
Acetone	5.2	3.9				5.5		54	14
Benzene	0.19	0.12				0.1		0.18	0.17
Bromodichloromethane	0	0				0		0	0
Bromoform	0	0				0		0	0
Bromomethane	0.11	0				0		0	0
Carbon disulfide	0	0				0		0.33	0
Carbon tetrachloride	0.076	0.076				0.07		0.07	0.074
Chlorobenzene	0	0				0		0	0
Chloroethane	0	0				0		0	0.061
Chloroethene	0	0				0		0	0
Chloroform	0	0				0		0	0
Chloromethane	0.46	0.45				0.46		0.55	0.58
cis-1,2-Dichloroethene	0	0				0		0	0
cis-1,3-Dichloro-1-propene	0	0				0		0	0
Cyclohexane	0	0				0		0	0.028
Dibromochloromethane	0	0				0		0	0
Dichlorodifluoromethane	0.43	0.42				0.39		0.52	0.52
Ethylbenzene	0	0				0		0	0
Hexachloro-1,3-butadiene	0	0				0		0	0
m & p- Xylene	0.088	0				0.094		0.11	0.11
Methylene chloride	0.14	0.11				0.099		0.16	0.18
n-Heptane	0.13	0.061				0.092		0	0.1
n-Hexane	0.1	0.05				0.084		0	0.12
o-Xylene	0	0				0		0.05	0.042
Propene	0.85	0.49				0.68		2.2	1.1
Styrene	0	0				0		0	0
Tetrachloroethene	0.042	0				0		0	0
Tetrahydrofuran	0	0				0		0.13	0.15
Toluene	0.32	0.11				0.24		0.35	0.36
trans-1,2-Dichloroethene	0	0				0		0	0
trans-1,3-Dichloro-1-propene	0	0				0		0	0
Trichloroethylene (TCE)	0	0				0		0.063	0.038
Trichlorofluoromethane	0.22	0.22				0.21		0.28	0.28

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Notes:
 Non-detects & data <0.005 ppbv reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages not calculated if %<MDL is 50% or greater
 Samples are collected over a 24-hour period
 Analysis uses EPA Method TO-15

MDL - Method Detection Limit
NUM - No. of Valid Samples
AVG - Average
SAMP% - Valid Samples / Possible Samples
MIN - Minimum **MAX** - Maximum
STD - Standard Deviation

<MDL=.5MDL

Compounds	MDL	NUM	#<MDL	%<MDL	AVG	SAMP%	MIN	MAX	STD
1,1,1-Trichloroethane	0.04	52	52	100		87	0.02	0.02	0.00
1,1,2,2-Tetrachloroethane	0.04	52	52	100		87	0.02	0.02	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	52	0	0	0.06	87	0.05	0.10	0.01
1,1,2-Trichloroethane	0.06	52	52	100		87	0.03	0.03	0.00
1,1-Dichloroethane	0.04	52	52	100		87	0.02	0.02	0.00
1,1-Dichloroethene	0.06	52	52	100		87	0.03	0.03	0.00
1,2,4-Trichlorobenzene	0.06	52	52	100		87	0.03	0.03	0.00
1,2,4-Trimethylbenzene	0.04	52	46	88		87	0.02	0.07	0.02
1,2-Dibromoethane	0.06	52	52	100		87	0.03	0.03	0.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.04	52	52	100		87	0.02	0.02	0.00
1,2-Dichlorobenzene	0.04	52	52	100		87	0.02	0.02	0.00
1,2-Dichloroethane	0.06	52	52	100		87	0.03	0.03	0.00
1,2-Dichloropropane	0.06	52	52	100		87	0.03	0.03	0.00
1,3,5-Trimethylbenzene	0.04	52	51	98		87	0.02	0.06	0.01
1,3-Butadiene	0.18	52	52	100		87	0.09	0.09	0.00
1,3-Dichlorobenzene	0.04	52	52	100		87	0.02	0.02	0.00
1,4-Dichlorobenzene	0.04	52	52	100		87	0.02	0.02	0.00
1-Ethyl-4-methyl benzene	0.04	52	52	100		87	0.02	0.02	0.00
2-Butanone (MEK)	0.14	52	0	0	1.08	87	0.18	7.20	1.32
2-Hexanone	0.14	52	43	83		87	0.07	1.60	0.29
2-Methoxy-2-methyl propane (MTBE)	0.04	52	52	100		87	0.02	0.02	0.00
4-Methyl-2-pentanone (MIBK)	0.18	52	48	92		87	0.09	0.38	0.08
Acetone	0.14	52	0	0	6.05	87	1.20	36.00	6.20
Benzene	0.06	52	0	0	0.16	87	0.07	0.46	0.08
Bromodichloromethane	0.06	52	52	100		87	0.03	0.03	0.00
Bromoform	0.04	52	52	100		87	0.02	0.02	0.00
Bromomethane	0.06	52	52	100		87	0.03	0.03	0.00
Carbon disulfide	0.08	52	33	63		87	0.04	0.79	0.18
Carbon tetrachloride	0.04	52	0	0	0.09	87	0.05	0.14	0.03
Chlorobenzene	0.06	52	52	100		87	0.03	0.03	0.00
Chloroethane	0.06	52	45	87		87	0.03	0.13	0.04
Chloroethene	0.06	52	52	100		87	0.03	0.03	0.00
Chloroform	0.06	52	52	100		87	0.03	0.03	0.00
Chloromethane	0.06	52	0	0	0.46	87	0.29	0.65	0.09
cis-1,2-Dichloroethene	0.06	52	52	100		87	0.03	0.03	0.00
cis-1,3-Dichloro-1-propene	0.04	52	52	100		87	0.02	0.02	0.00
Cyclohexane	0.04	52	49	94		87	0.02	0.06	0.01
Dibromochloromethane	0.06	52	52	100		87	0.03	0.03	0.00
Dichlorodifluoromethane	0.04	52	0	0	0.44	87	0.34	0.54	0.05
Ethylbenzene	0.04	52	46	88		87	0.02	0.08	0.02
Hexachloro-1,3-butadiene	0.04	52	52	100		87	0.02	0.02	0.00
m & p- Xylene	0.10	52	41	79		87	0.05	0.23	0.06
Methylene chloride	0.08	52	7	13	0.16	87	0.04	0.94	0.13
n-Heptane	0.04	52	8	15	0.08	87	0.02	0.22	0.05
n-Hexane	0.04	52	9	17	0.09	87	0.02	0.26	0.06
o-Xylene	0.04	52	45	87		87	0.02	0.08	0.02
Propene	0.06	52	0	0	0.99	87	0.39	2.50	0.44
Styrene	0.04	52	52	100		87	0.02	0.02	0.00
Tetrachloroethene	0.06	52	52	100		87	0.03	0.03	0.01
Tetrahydrofuran	0.04	52	39	75		87	0.02	0.23	0.06
Toluene	0.06	52	1	2	0.28	87	0.03	1.00	0.18
trans-1,2-Dichloroethene	0.10	52	52	100		87	0.05	0.05	0.00
trans-1,3-Dichloro-1-propene	0.04	52	52	100		87	0.02	0.02	0.00
Trichloroethylene (TCE)	0.06	52	31	60		87	0.03	0.42	0.08
Trichlorofluoromethane	0.04	52	0	0	0.25	87	0.18	0.37	0.05

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	1/6	1/12	1/18	1/24	1/30	2/5	2/11	2/17	2/23
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.057	0.055	0.054	0.055	0.062	0.065	0.06	0.064	0.06
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0.044	0	0	0	0	0	0
1,2-Dibromoethane	0	0	0	0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,3-Butadiene	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0	0	0	0	0	0
2-Butanone (MEK)	2.2	0.34	0.28	0.19	0.48	0.22	0.18	0.23	0.21
2-Hexanone	0.27	0	0	0	0	0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0.083	0	0	0	0	0	0	0	0
Acetone	10	2.7	2	1.6	3.9	1.9	1.2	1.4	1.5
Benzene	0.07	0.17	0.34	0.15	0.14	0.13	0.17	0.14	0.093
Bromodichloromethane	0	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0	0
Carbon disulfide	0.061	0.14	0.77	0	0.089	0	0	0	0
Carbon tetrachloride	0.12	0.12	0.12	0.11	0.13	0.13	0.13	0.14	0.13
Chlorobenzene	0	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0	0	0	0	0
Chloroethene	0	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0	0
Chloromethane	0.45	0.35	0.32	0.31	0.37	0.44	0.39	0.42	0.41
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Cyclohexane	0	0	0	0	0	0	0	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	0.37	0.39	0.37	0.37	0.41	0.46	0.42	0.42	0.41
Ethylbenzene	0	0	0.047	0	0	0	0	0	0
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0	0
m & p- Xylene	0	0	0.16	0	0	0	0	0	0
Methylene chloride	0.082	0.18	0.12	0.049	0.049	0.041	0	0.068	0
n-Heptane	0.1	0	0.077	0	0	0	0	0	0
n-Hexane	0.049	0.1	0.21	0	0	0	0	0	0
o-Xylene	0	0	0.057	0	0	0	0	0	0
Propene	0.75	1.1	1.7	0.82	0.87	0.6	0.73	0.68	0.39
Styrene	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0.041	0	0	0	0	0	0
Tetrahydrofuran	0	0	0	0	0	0	0	0	0
Toluene	0.11	0.29	0.46	0.16	0.12	0.067	0.13	0.094	0.053
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Trichloroethylene (TCE)	0	0	0.072	0.28	0.13	0	0.063	0.057	0
Trichlorofluoromethane	0.19	0.2	0.2	0.19	0.22	0.23	0.21	0.22	0.21

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	3/1	3/7	3/13	3/19	3/25	3/31	4/6	4/12	4/18
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	0.06	0.062	0.076	0.071	0.072	0.071	0.061	0.059
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	0	0	0	0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,3-Butadiene	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0	0	0	0	0	0
2-Butanone (MEK)	0.71	0.54	0.4	0.48	0.98	1	0.55	0.71	0.86
2-Hexanone	0	0	0	0	0	0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0	0	0	0	0	0	0	0	0
Acetone	5.1	3	2.5	2.3	3.6	5.1	3.4	4	5.8
Benzene	0.23	0.23	0.15	0.2	0.18	0.25	0.15	0.15	0.12
Bromodichloromethane	0	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0	0
Carbon disulfide	0.13	0.066	0	0	0.19	0	0.31	0.49	0.091
Carbon tetrachloride	0.13	0.14	0.14	0.053	0.051	0.075	0.067	0.057	0.061
Chlorobenzene	0	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0.094	0.1	0	0	0
Chloroethene	0	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0	0
Chloromethane	0.41	0.39	0.41	0.53	0.56	0.65	0.64	0.58	0.59
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Cyclohexane	0	0	0	0	0	0.062	0	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	0.41	0.4	0.41	0.47	0.48	0.54	0.54	0.49	0.5
Ethylbenzene	0	0	0	0	0	0.045	0	0	0
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0	0
m & p- Xylene	0	0	0	0	0	0.13	0	0	0
Methylene chloride	0.13	0.074	0.17	0.12	0.13	0.2	0.11	0.17	0.14
n-Heptane	0.051	0.052	0.057	0.053	0.069	0.12	0.048	0.05	0.043
n-Hexane	0.071	0.11	0.081	0.11	0.19	0.24	0.083	0.16	0.12
o-Xylene	0	0	0	0	0	0.051	0	0	0
Propene	1	1.2	1.2	1	1	2.5	0.7	0.67	0.72
Styrene	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0	0	0	0	0	0	0
Tetrahydrofuran	0	0	0	0	0	0	0	0	0
Toluene	0.28	0.24	0.24	0.2	0.22	0.38	0.15	0.16	0.14
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Trichloroethylene (TCE)	0.11	0.051	0	0.23	0.1	0.074	0.12	0	0.04
Trichlorofluoromethane	0.22	0.21	0.21	0.31	0.31	0.28	0.26	0.36	0.37

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	4/24	4/30	5/6	5/12	5/18	5/24	5/30	6/5	6/11
1,1,1-Trichloroethane	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.056	0.055	0.05	0.05	0.054	0.07	0.059		
1,1,2-Trichloroethane	0	0	0	0	0	0	0		
1,1-Dichloroethane	0	0	0	0	0	0	0		
1,1-Dichloroethene	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	0	0	0	0	0	0	0		
1,2-Dibromoethane	0	0	0	0	0	0	0		
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	0	0	0	0	0	0	0		
1,2-Dichloroethane	0	0	0	0	0	0	0		
1,2-Dichloropropane	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	0	0	0	0.06	0	0	0		
1,3-Butadiene	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	0	0	0	0	0	0	0		
1-Ethyl-4-methyl benzene	0	0	0	0	0	0	0		
2-Butanone (MEK)	0.86	0.58	7.2	4.5	0.9	0.8	1.8		
2-Hexanone	0	0	1.6	0.54	0.16	0	0		
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0	0	0	0		
4-Methyl-2-pentanone (MIBK)	0	0	0.38	0.16	0.042	0	0		
Acetone	5.4	3.6	36	26	5.5	5.7	7.2		
Benzene	0.11	0.15	0.082	0.14	0.11	0.095	0.1		
Bromodichloromethane	0	0	0	0	0	0	0		
Bromoform	0	0	0	0	0	0	0		
Bromomethane	0	0	0	0	0	0	0		
Carbon disulfide	0	0	0.79	0.12	0	0	0.25		
Carbon tetrachloride	0.062	0.06	0.08	0.08	0.069	0.077	0.07		
Chlorobenzene	0	0	0	0	0	0	0		
Chloroethane	0	0	0	0	0.078	0	0.13		
Chloroethene	0	0	0	0	0	0	0		
Chloroform	0	0	0	0	0	0	0		
Chloromethane	0.6	0.6	0.55	0.58	0.63	0.6	0.55		
cis-1,2-Dichloroethene	0	0	0	0	0	0	0		
cis-1,3-Dichloro-1-propene	0	0	0	0	0	0	0		
Cyclohexane	0	0	0	0	0	0	0		
Dibromochloromethane	0	0	0	0	0	0	0		
Dichlorodifluoromethane	0.5	0.5	0.44	0.47	0.5	0.52	0.45		
Ethylbenzene	0	0	0	0	0	0	0		
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0		
m & p- Xylene	0	0.11	0	0.096	0	0	0		
Methylene chloride	0.16	0.17	0.13	0.2	0.22	0.26	0.22		
n-Heptane	0.076	0.093	0.18	0.22	0.097	0.073	0.082		
n-Hexane	0.061	0.12	0	0	0.059	0.1	0.1		
o-Xylene	0	0.045	0	0	0	0	0		
Propene	0.64	1.2	1.2	1.3	0.73	0.8	0.91		
Styrene	0	0	0	0	0	0	0		
Tetrachloroethene	0	0	0	0	0	0.059	0		
Tetrahydrofuran	0	0	0.042	0.1	0	0	0.12		
Toluene	0.19	0.31	0.11	0.33	0.19	0.44	0.3		
trans-1,2-Dichloroethene	0	0	0	0	0	0	0		
trans-1,3-Dichloro-1-propene	0	0	0	0	0	0	0		
Trichloroethylene (TCE)	0.16	0.052	0	0.19	0	0	0.12		
Trichlorofluoromethane	0.36	0.36	0.35	0.36	0.37	0.26	0.22		

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	6/17	6/23	6/29	7/5	7/11	7/17	7/23	7/29	8/4
1,1,1-Trichloroethane			0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane			0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane			0.062	0.064	0.061	0.066	0.057	0.058	0.071
1,1,2-Trichloroethane			0	0	0	0	0	0	0
1,1-Dichloroethane			0	0	0	0	0	0	0
1,1-Dichloroethene			0	0	0	0	0	0	0
1,2,4-Trichlorobenzene			0	0	0	0	0	0	0
1,2,4-Trimethylbenzene			0	0	0	0	0	0	0
1,2-Dibromoethane			0	0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane			0	0	0	0	0	0	0
1,2-Dichlorobenzene			0	0	0	0	0	0	0
1,2-Dichloroethane			0	0	0	0	0	0	0
1,2-Dichloropropane			0	0	0	0	0	0	0
1,3,5-Trimethylbenzene			0	0	0	0	0	0	0
1,3-Butadiene			0	0	0	0	0	0	0
1,3-Dichlorobenzene			0	0	0	0	0	0	0
1,4-Dichlorobenzene			0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene			0	0	0	0	0	0	0
2-Butanone (MEK)			1.4	1.2	0.94	1.2	0.79	0.87	2.1
2-Hexanone			0.28	0	0	0	0	0	0.55
2-Methoxy-2-methyl propane (MTBE)			0	0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)			0.066	0.082	0	0.1	0.041	0.05	0.19
Acetone			7.6	7.1	4.9	6.4	4.8	6	12
Benzene			0.097	0.11	0.11	0.11	0.074	0.11	0.18
Bromodichloromethane			0	0	0	0	0	0	0
Bromoform			0	0	0	0	0	0	0
Bromomethane			0	0	0	0	0	0	0
Carbon disulfide			0.4	0	0	0	0	0	0
Carbon tetrachloride			0.067	0.068	0.066	0.068	0.066	0.066	0.12
Chlorobenzene			0	0	0	0	0	0	0
Chloroethane			0.11	0	0	0	0	0	0.11
Chloroethene			0	0	0	0	0	0	0
Chloroform			0	0	0	0	0	0	0
Chloromethane			0.53	0.46	0.5	0.49	0.41	0.43	0.59
cis-1,2-Dichloroethene			0	0	0	0	0	0	0
cis-1,3-Dichloro-1-propene			0	0	0	0	0	0	0
Cyclohexane			0	0	0	0	0	0	0
Dibromochloromethane			0	0	0	0	0	0	0
Dichlorodifluoromethane			0.42	0.41	0.41	0.42	0.41	0.41	0.52
Ethylbenzene			0	0	0	0	0	0.08	0
Hexachloro-1,3-butadiene			0	0	0	0	0	0	0
m & p- Xylene			0	0	0	0	0.11	0.23	0
Methylene chloride			0.2	0.24	0.17	0.21	0.15	0.19	0.94
n-Heptane			0.11	0.16	0.1	0.098	0.096	0.17	0.14
n-Hexane			0.095	0.062	0.083	0.092	0.052	0.094	0.078
o-Xylene			0	0	0	0	0	0.064	0
Propene			0.68	0.82	1.1	0.61	0.56	0.67	0.77
Styrene			0	0	0	0	0	0	0
Tetrachloroethene			0	0	0	0	0	0	0
Tetrahydrofuran			0.13	0.14	0.13	0.12	0	0.14	0.23
Toluene			0.34	0.23	0.32	0.41	0.2	0.34	1
trans-1,2-Dichloroethene			0	0	0	0	0	0	0
trans-1,3-Dichloro-1-propene			0	0	0	0	0	0	0
Trichloroethylene (TCE)			0.16	0	0	0.11	0	0	0
Trichlorofluoromethane			0.22	0.2	0.21	0.21	0.21	0.21	0.27

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	8/10	8/16	8/22	8/28	9/3	9/9	9/15	9/21	9/27
1,1,1-Trichloroethane	0			0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0			0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.067			0.062	0.062	0.095	0.058	0.064	0.061
1,1,2-Trichloroethane	0			0	0	0	0	0	0
1,1-Dichloroethane	0			0	0	0	0	0	0
1,1-Dichloroethene	0			0	0	0	0	0	0
1,2,4-Trichlorobenzene	0			0	0	0	0	0	0
1,2,4-Trimethylbenzene	0			0	0	0	0	0	0
1,2-Dibromoethane	0			0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0			0	0	0	0	0	0
1,2-Dichlorobenzene	0			0	0	0	0	0	0
1,2-Dichloroethane	0			0	0	0	0	0	0
1,2-Dichloropropane	0			0	0	0	0	0	0
1,3,5-Trimethylbenzene	0			0	0	0	0	0	0
1,3-Butadiene	0			0	0	0	0	0	0
1,3-Dichlorobenzene	0			0	0	0	0	0	0
1,4-Dichlorobenzene	0			0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0			0	0	0	0	0	0
2-Butanone (MEK)	0.72			5.5	1.8	0.46	0.28	0.92	1.3
2-Hexanone	0			1.2	0	0	0	0	0.21
2-Methoxy-2-methyl propane (MTBE)	0			0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0			0.37	0	0	0	0	0
Acetone	6.7			22	12	4.3	2	7.1	7.1
Benzene	0.12			0.14	0.1	0.091	0.071	0.14	0.12
Bromodichloromethane	0			0	0	0	0	0	0
Bromoform	0			0	0	0	0	0	0
Bromomethane	0			0	0	0	0	0	0
Carbon disulfide	0.3			0.26	0.2	0	0	0	0.43
Carbon tetrachloride	0.07			0.071	0.068	0.11	0.064	0.08	0.074
Chlorobenzene	0			0	0	0	0	0	0
Chloroethane	0			0	0	0	0	0	0.1
Chloroethene	0			0	0	0	0	0	0
Chloroform	0			0	0	0	0	0	0
Chloromethane	0.55			0.4	0.36	0.4	0.34	0.41	0.5
cis-1,2-Dichloroethene	0			0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0			0	0	0	0	0	0
Cyclohexane	0			0	0	0	0	0	0
Dibromochloromethane	0			0	0	0	0	0	0
Dichlorodifluoromethane	0.46			0.42	0.42	0.47	0.4	0.42	0.39
Ethylbenzene	0			0	0	0	0	0	0
Hexachloro-1,3-butadiene	0			0	0	0	0	0	0
m & p- Xylene	0			0	0	0	0	0	0
Methylene chloride	0.19			0.18	0.12	0.12	0.12	0.19	0.18
n-Heptane	0.074			0.09	0.063	0.057	0	0.073	0.11
n-Hexane	0.076			0	0.066	0.052	0.059	0.11	0.09
o-Xylene	0			0	0	0	0	0	0
Propene	0.65			1.7	0.88	0.66	0.42	0.76	0.89
Styrene	0			0	0	0	0	0	0
Tetrachloroethene	0			0	0	0	0	0	0
Tetrahydrofuran	0.11			0.14	0	0.11	0	0	0
Toluene	0.29			0.41	0.26	0.16	0.15	0.36	0.28
trans-1,2-Dichloroethene	0			0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0			0	0	0	0	0	0
Trichloroethylene (TCE)	0			0	0	0	0	0.1	0
Trichlorofluoromethane	0.24			0.23	0.22	0.31	0.2	0.23	0.21

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Notes:
 MDL = Method Detection Limit
 Non-detects (ND) and data <0.005 are reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages are not calculated if "%<MDL" is 50% or greater

Compound	MDL	NUM	#<MDL	%<MDL	AVG1	AVG2	MIN	MAX	STD	1/5
1,1,1-Trichloroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,1,2,2-Tetrachloroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	61	8	13	0.06		0.02	0.08	0.02	0.068
1,1,2-Trichloroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,1-Dichloroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,1-Dichloroethene	0.04	61	61	100			0.02	0.02	0.00	0.00
1,2,4-Trichlorobenzene	0.06	61	61	100			0.03	0.03	0.00	0.00
1,2,4-Trimethylbenzene	0.04	61	59	97			0.02	0.07	0.01	0.00
1,2-Dibromoethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,2-Dichlorobenzene	0.04	61	61	100			0.02	0.02	0.00	0.00
1,2-Dichloroethane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,2-Dichloropropane	0.04	61	61	100			0.02	0.02	0.00	0.00
1,3,5-Trimethylbenzene	0.04	61	60	98			0.02	0.05	0.00	0.00
1,3-Butadiene	0.04	61	60	98			0.02	0.15	0.02	0.00
1,3-Dichlorobenzene	0.04	61	61	100			0.02	0.02	0.00	0.00
1,4-Dichlorobenzene	0.04	61	61	100			0.02	0.02	0.00	0.00
1-Ethyl-4-methyl benzene	0.04	61	61	100			0.02	0.02	0.00	0.00
2-Butanone (MEK)	0.06	61	0	0	1.06		0.16	6.60	1.37	0.45
2-Hexanone	0.08	61	57	93			0.04	1.40	0.23	0.00
2-Methoxy-2-methyl propane (MTBE)	0.04	61	40	66			0.02	0.44	0.10	0.093
4-Methyl-2-pentanone (MIBK)	0.04	61	58	95			0.02	0.24	0.04	0.00
Acetone	0.06	61	0	0	6.23		1.40	28.00	5.38	3.3
Benzene	0.04	61	0	0	0.15		0.05	0.43	0.10	0.21
Bromodichloromethane	0.04	61	61	100			0.02	0.02	0.00	0.00
Bromoform	0.04	61	61	100			0.02	0.02	0.00	0.00
Bromomethane	0.04	61	59	97			0.02	0.11	0.01	0.00
Carbon disulfide	0.04	61	33	54			0.02	1.40	0.36	0.072
Carbon tetrachloride	0.06	61	9	15	0.08		0.03	0.16	0.03	0.044
Chlorobenzene	0.04	61	61	100			0.02	0.02	0.00	0.00
Chloroethane	0.04	61	57	93			0.02	0.08	0.01	0.00
Chloroethene	0.04	61	61	100			0.02	0.02	0.00	0.00
Chloroform	0.04	61	61	100			0.02	0.02	0.00	0.00
Chloromethane	0.04	61	0	0	0.43		0.17	0.63	0.10	0.45
cis-1,2-Dichloroethene	0.08	61	61	100			0.04	0.04	0.00	0.00
cis-1,3-Dichloro-1-propene	0.04	61	61	100			0.02	0.02	0.00	0.00
Cyclohexane	0.04	61	57	93			0.02	0.08	0.01	0.00
Dibromochloromethane	0.04	61	61	100			0.02	0.02	0.00	0.00
Dichlorodifluoromethane	0.04	61	0	0	0.43		0.25	0.53	0.07	0.44
Ethylbenzene	0.04	61	54	89			0.02	0.09	0.01	0.00
Hexachloro-1,3-butadiene	0.04	61	61	100			0.02	0.02	0.00	0.00
m & p- Xylene	0.08	61	48	79			0.04	0.26	0.05	0.08
Methylene chloride	0.04	61	12	20	0.08		0.02	1.10	0.14	0.057
n-Heptane	0.04	61	21	34	0.05		0.02	0.21	0.04	0.063
n-Hexane	0.04	61	21	34	0.08		0.02	0.40	0.07	0.11
o-Xylene	0.04	61	53	87			0.02	0.10	0.02	0.00
Propene	0.04	61	0	0	0.96		0.17	4.60	0.79	0.97
Styrene	0.04	61	61	100			0.02	0.02	0.00	0.00
Tetrachloroethene	0.04	61	57	93			0.02	0.07	0.01	0.00
Tetrahydrofuran	0.04	61	61	100			0.02	0.02	0.00	0.00
Toluene	0.04	61	0	0	0.29		0.08	1.50	0.23	0.29
trans-1,2-Dichloroethene	0.04	61	61	100			0.02	0.02	0.00	0.00
trans-1,3-Dichloro-1-propene	0.04	61	61	100			0.02	0.02	0.00	0.00
Trichloroethylene (TCE)	0.04	61	18	30	0.12		0.02	0.56	0.11	0.26
Trichlorofluoromethane	0.04	61	0	0	0.21		0.04	0.27	0.06	0.22

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	1/11	1/17	1/23	1/29	2/4	2/10	2/16	2/22	2/28	3/6
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.073	0.067	0.077	0.078	0.075	0.073	0.079	0.076	0.073	0.076
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.61	0.33	0.2	0.74	0.25	0.28	1.2	0.85	0.28	0.32
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.44	0.2	0.095	0.36	0.18	0.06	0.37	0.28	0.00	0.067
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	5	2.3	1.4	2.8	1.9	1.8	6.2	5.8	2.3	1.8
Benzene	0.42	0.34	0.22	0.37	0.23	0.22	0.43	0.41	0.2	0.19
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.11	0.00	0.00	0.00	0.096	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon tetrachloride	0.051	0.05	0.058	0.055	0.053	0.054	0.067	0.064	0.067	0.064
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.38	0.41	0.51	0.46	0.47	0.51	0.52	0.5	0.48	0.47
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.078	0.00	0.00	0.041	0.00	0.00	0.065	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.44	0.45	0.51	0.51	0.49	0.5	0.53	0.53	0.49	0.5
Ethylbenzene	0.087	0.055	0.00	0.058	0.00	0.00	0.085	0.062	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.26	0.16	0.083	0.19	0.1	0.07	0.23	0.19	0.00	0.00
Methylene chloride	0.14	0.098	0.11	0.43	0.15	0.064	0.13	0.09	0.063	0.00
n-Heptane	0.14	0.078	0.054	0.21	0.056	0.047	0.18	0.12	0.049	0.00
n-Hexane	0.29	0.12	0.089	0.18	0.11	0.079	0.4	0.2	0.045	0.046
o-Xylene	0.1	0.059	0.00	0.071	0.00	0.00	0.086	0.072	0.00	0.00
Propene	3	1.4	0.79	2	1.5	0.83	2.7	2.3	0.58	0.76
Styrene	0.031	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.07	0.00	0.00	0.00	0.00	0.00	0.055	0.043	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.75	0.48	0.28	1.1	0.32	0.27	0.73	0.52	0.16	0.2
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.16	0.56	0.00	0.089	0.044	0.19	0.38	0.26	0.12	0.092
Trichlorofluoromethane	0.22	0.22	0.26	0.26	0.25	0.25	0.27	0.27	0.24	0.25

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	3/12	3/18	3/24	3/30	4/5	4/11	4/17	4/23	4/29	5/5
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.077	0.077	0.072	0.073	0.072	0.072	0.073	0.074	0.071	0.073
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.55	0.76	0.62	0.71	0.8	0.76	0.67	0.37	0.54	0.77
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.24	0.00	0.076	0.15	0.00	0.22	0.081	0.1	0.16	0.18
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	4.1	5.4	3.4	4.7	4.8	5.4	4.3	2.8	3.8	5.8
Benzene	0.31	0.14	0.2	0.16	0.1	0.16	0.091	0.13	0.14	0.13
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon tetrachloride	0.054	0.054	0.064	0.067	0.07	0.067	0.06	0.061	0.072	0.083
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.51	0.54	0.47	0.48	0.55	0.5	0.52	0.54	0.49	0.56
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.51	0.5	0.48	0.49	0.5	0.49	0.48	0.48	0.46	0.47
Ethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.099	0.00	0.072	0.078	0.00	0.086	0.00	0.00	0.07	0.088
Methylene chloride	0.07	0.043	0.058	0.06	0.042	0.072	0.056	0.054	0.06	0.076
n-Heptane	0.082	0.00	0.051	0.058	0.00	0.064	0.00	0.042	0.054	0.06
n-Hexane	0.13	0.00	0.074	0.18	0.00	0.1	0.00	0.051	0.086	0.11
o-Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Propene	1.8	0.4	0.75	1.4	0.32	1.2	0.39	0.41	0.75	0.74
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.37	0.1	0.25	0.27	0.096	0.3	0.17	0.23	0.26	0.38
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.15	0.00	0.23	0.064	0.068	0.063	0.00	0.00	0.00	0.2
Trichlorofluoromethane	0.26	0.25	0.24	0.24	0.25	0.24	0.24	0.24	0.24	0.24

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	5/11	5/17	5/23	5/29	6/4	6/10	6/16	6/22	6/28	7/4
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.07	0.074	0.071	0.069	0.066	0.067	0.058	0.06	0.059	0.061
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	1.5	0.52	1.4	2	0.74	0.42	3.7	0.68	0.56	0.66
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.00	0.00	0.00	0.087	0.00	0.00	0.00	0.00	0.00	0.00
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	9.8	3.8	10	15	4.2	3.4	17	4.3	4.8	4.9
Benzene	0.079	0.094	0.052	0.12	0.068	0.051	0.073	0.088	0.054	0.084
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.21	0.00	0.15	0.19	0.00	0.00	0.56	0.083	0.055	0.094
Carbon tetrachloride	0.085	0.082	0.082	0.082	0.076	0.076	0.073	0.071	0.066	0.069
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.52	0.52	0.47	0.52	0.48	0.48	0.39	0.48	0.45	0.48
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.46	0.46	0.45	0.46	0.44	0.43	0.39	0.4	0.38	0.4
Ethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.062	0.00	0.00
Methylene chloride	0.054	0.06	0.044	0.061	0.048	0.049	0.049	0.064	0.046	0.06
n-Heptane	0.044	0.045	0.044	0.072	0.00	0.00	0.056	0.041	0.00	0.00
n-Hexane	0.00	0.057	0.00	0.00	0.042	0.00	0.00	0.073	0.00	0.056
o-Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Propene	0.41	0.51	0.33	1.2	0.33	0.17	0.95	0.5	0.26	0.44
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.22	0.24	0.13	0.33	0.17	0.13	0.24	0.3	0.19	0.23
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.00	0.094	0.24	0.083	0.00	0.00	0.28	0.081	0.064	0.05
Trichlorofluoromethane	0.23	0.23	0.22	0.23	0.22	0.21	0.19	0.2	0.19	0.2

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	7/10	7/16	7/22	7/28	8/3	8/9	8/15	8/21	8/27	9/2
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.058	0.059	0.072	0.067	0.065	0.064	0.065	0.063	0.067	0.059
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	6.6	5.4	1	5.7	1.7	1.1	0.85	0.9	0.37	0.28
2-Hexanone	0.00	0.00	0.00	1.4	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.00	0.00	0.044	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	28	16	8.2	24	15	9.6	7.6	9.2	4.8	2.7
Benzene	0.098	0.12	0.1	0.16	0.087	0.091	0.077	0.048	0.065	0.046
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	1.1	1.2	0.3	1.3	0.6	0.28	0.045	0.16	0.16	0.048
Carbon tetrachloride	0.068	0.072	0.085	0.084	0.078	0.077	0.073	0.076	0.078	0.066
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.066	0.046	0.00	0.00	0.084	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.42	0.48	0.63	0.58	0.54	0.43	0.48	0.39	0.4	0.39
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.38	0.39	0.49	0.45	0.43	0.42	0.42	0.4	0.42	0.38
Ethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.00	0.071	0.00	0.063	0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	0.043	0.048	0.063	0.093	0.066	0.082	0.15	0.00	0.00	0.00
n-Heptane	0.092	0.095	0.056	0.11	0.049	0.055	0.043	0.00	0.00	0.00
n-Hexane	0.00	0.098	0.066	0.085	0.074	0.11	0.1	0.00	0.00	0.00
o-Xylene	0.00	0.00	0.00	0.044	0.00	0.00	0.00	0.00	0.00	0.00
Propene	1.5	2.3	0.75	2	0.72	0.54	0.38	0.33	0.47	0.2
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.27	0.39	0.3	0.38	0.39	0.34	0.27	0.18	0.1	0.13
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.085	0.15	0.14	0.24	0.098	0.13	0.043	0.071	0.00	0.00
Trichlorofluoromethane	0.19	0.19	0.24	0.23	0.22	0.21	0.22	0.2	0.22	0.19

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	9/8	9/14	9/20	9/26	10/2	10/8	10/14	10/20	10/26	11/1
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	0.059	0.061	0.061	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.054
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.46	0.27	0.3	0.31	0.16	0.61	4.4	0.45	3.6	0.68
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.73	0.00
2-Methoxy-2-methyl propane (MTBE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.24	0.00
Acetone	4.6	2.6	2.7	2.6	2.4	5.8	17	4.1	14	7.7
Benzene	0.12	0.13	0.07	0.072	0.078	0.11	0.08	0.097	0.087	0.13
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.00	0.00	0.00	0.3	0.00	1.2	0.98	0.00	0.24	0.43
Carbon tetrachloride	0.067	0.065	0.067	0.068	0.11	0.1	0.084	0.094	0.094	0.1
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.38	0.37	0.35	0.34	0.25	0.24	0.17	0.31	0.19	0.26
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.38	0.37	0.38	0.39	0.33	0.32	0.25	0.27	0.27	0.31
Ethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.064	0.072	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Methylene chloride	0.067	0.053	0.043	0.056	0.00	0.00	0.00	0.00	0.00	0.00
n-Heptane	0.00	0.044	0.00	0.00	0.00	0.049	0.071	0.04	0.046	0.086
n-Hexane	0.11	0.09	0.054	0.066	0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Propene	0.72	0.46	0.37	0.45	0.41	0.69	1.2	0.71	0.86	0.9
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.32	0.25	0.18	0.18	0.16	0.21	0.14	0.2	0.12	0.28
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.26	0.00	0.21	0.34	0.29	0.00	0.23	0.00	0.077	0.22
Trichlorofluoromethane	0.2	0.2	0.2	0.2	0.08	0.083	0.042	0.062	0.05	0.071

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Notes:
 MDL = Method Detection Limit
 ND = Compound not detected
 NDs, zeros and data <MDL = 1/2 the MDL for summary information
 Averages are not calculated if % <MDL is 50% or greater

Compound	MDL	NUM	#<MDL	%<MDL	AVG1	AVG2	MIN	MAX	STD
1,1,1-Trichloroethane	0.04	50	50	100			0.02	0.02	0.00
1,1,2,2-Tetrachloroethane	0.14	50	50	100			0.07	0.07	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	50	0	0	0.06		0.05	0.09	0.01
1,1,2-Trichloroethane	0.04	50	50	100			0.02	0.02	0.00
1,1-Dichloroethane	0.04	50	50	100			0.02	0.02	0.00
1,1-Dichloroethene	0.04	50	50	100			0.02	0.02	0.00
1,2,4-Trichlorobenzene	0.2	50	50	100			0.10	0.10	0.00
1,2,4-Trimethylbenzene	0.14	50	45	90			0.07	0.07	0.00
1,2-Dibromoethane	0.04	50	50	100			0.02	0.02	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	50	50	100			0.02	0.02	0.00
1,2-Dichlorobenzene	0.16	50	50	100			0.08	0.08	0.00
1,2-Dichloroethane	0.04	50	50	100			0.02	0.02	0.00
1,2-Dichloropropane	0.04	50	50	100			0.02	0.02	0.00
1,3,5-Trimethylbenzene	0.14	50	45	90			0.07	0.07	0.00
1,3-Butadiene	0.04	50	50	100			0.02	0.02	0.00
1,3-Dichlorobenzene	0.14	50	50	100			0.07	0.07	0.00
1,4-Dichlorobenzene	0.14	50	50	100			0.07	0.07	0.00
1-Ethyl-4-methyl benzene	0.16	50	50	100			0.08	0.08	0.00
2-Butanone (MEK)	0.16	50	1	2	1.16		0.08	5.40	1.11
2-Hexanone	0.38	43	41	95			0.19	0.45	0.04
2-Methoxy-2-methyl propane (MTBE)	0.04	50	7	14	0.21		0.02	1.40	0.23
4-Methyl-2-pentanone (MIBK)	0.88	50	48	96			0.44	0.44	0.00
Acetone	0.14	50	0	0	5.96		1.30	26.00	4.76
Benzene	0.04	50	0	0	0.18		0.07	0.46	0.09
Bromodichloromethane	0.04	50	50	100			0.02	0.02	0.00
Bromoform	0.02	50	50	100			0.01	0.01	0.00
Bromomethane	0.04	50	49	98			0.02	0.13	0.02
Carbon disulfide	0.04	50	38	76			0.02	0.29	0.05
Carbon tetrachloride	0.04	50	0	0	0.09		0.02	0.16	0.04
Chlorobenzene	0.04	50	50	100			0.02	0.02	0.00
Chloroethane	0.04	50	44	88			0.02	0.12	0.02
Chloroethene	0.04	50	49	98			0.02	0.04	0.00
Chloroform	0.04	50	50	100			0.02	0.02	0.00
Chloromethane	0.04	50	0	0	0.48		0.37	0.70	0.07
cis-1,2-Dichloroethene	0.04	50	50	100			0.02	0.02	0.00
cis-1,3-Dichloro-1-propene	0.02	50	50	100			0.01	0.01	0.00
Cyclohexane	0.04	50	45	90			0.02	0.05	0.01
Dibromochloromethane	0.04	50	50	100			0.02	0.02	0.00
Dichlorodifluoromethane	0.04	50	0	0	0.43		0.35	0.51	0.04
Ethylbenzene	0.04	50	41	82			0.02	0.09	0.02
Hexachloro-1,3-butadiene	0.12	50	50	100			0.06	0.06	0.00
m & p- Xylene	0.06	50	27	54			0.03	0.27	0.06
Methylene chloride	0.04	50	6	12	0.07		0.02	0.35	0.05
n-Heptane	0.04	50	8	16	0.07		0.02	0.17	0.04
n-Hexane	0.04	50	10	20	0.11		0.02	0.47	0.09
o-Xylene	0.04	50	36	72			0.02	0.10	0.02
Propene	0.16	50	1	2	1.01		0.08	2.50	0.67
Styrene	0.02	50	50	100			0.01	0.01	0.00
Tetrachloroethene	0.04	50	44	88			0.02	0.07	0.01
Tetrahydrofuran	0.04	50	48	96			0.02	0.17	0.02
Toluene	0.04	50	0	0	0.34		0.13	0.90	0.15
trans-1,2-Dichloroethene	0.04	50	50	100			0.02	0.02	0.00
trans-1,3-Dichloro-1-propene	0.02	50	50	100			0.01	0.01	0.00
Trichloroethene (TCE)	0.04	50	12	24	0.14		0.02	0.73	0.14
Trichlorofluoromethane	0.04	50	0	0	0.21		0.17	0.29	0.02

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	1/4	1/10	1/16	1/22	1/28	2/3	2/9	2/15	2/21
1,1,1-Trichloroethane	ND	ND				ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND				ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.078	0.071				0.063	0.055	0.053	0.065
1,1,2-Trichloroethane	ND	ND				ND	ND	ND	ND
1,1-Dichloroethane	ND	ND				ND	ND	ND	ND
1,1-Dichloroethene	ND	ND				ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND				ND	ND	ND	ND
1,2,4-Trimethylbenzene	0.058	ND				0.05	0.08	ND	ND
1,2-Dibromoethane	ND	ND				ND	ND	ND	ND
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND	ND				ND	ND	ND	ND
1,2-Dichlorobenzene	ND	ND				ND	ND	ND	ND
1,2-Dichloroethane	ND	ND				ND	ND	ND	ND
1,2-Dichloropropane	ND	ND				ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.088	ND				ND	0.063	0.063	ND
1,3-Butadiene	ND	ND				ND	ND	ND	ND
1,3-Dichlorobenzene	ND	ND				ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND				ND	ND	ND	ND
1-Ethyl-4-methyl benzene	ND	ND				ND	ND	ND	ND
2-Butanone (MEK)	0.8	0.37				0.67	0.65	1.2	0.52
2-Hexanone	ND	ND				ND	ND	ND	ND
2-Methoxy-2-methyl propane (MTBE)	0.38	0.056				0.3	0.66	0.13	0.15
4-Methyl-2-pentanone (MIBK)	ND	ND				ND	ND	ND	ND
Acetone	2.9	1.9				3.5	3.2	4.7	2.8
Benzene	0.36	0.22				0.46	0.41	0.16	0.24
Bromodichloromethane	ND	ND				ND	ND	ND	ND
Bromoform	ND	ND				ND	ND	ND	ND
Bromomethane	ND	ND				ND	ND	ND	ND
Carbon disulfide	ND	ND				ND	ND	ND	ND
Carbon tetrachloride	0.078	0.072				0.073	0.061	0.058	0.1
Chlorobenzene	ND	ND				ND	ND	ND	ND
Chloroethane	ND	ND				ND	ND	0.073	ND
Chloroethene	0.041	ND				ND	ND	ND	ND
Chloroform	ND	ND				ND	ND	ND	ND
Chloromethane	0.62	0.58				0.43	0.4	0.51	0.51
cis-1,2-Dichloroethene	ND	ND				ND	ND	ND	ND
cis-1,3-Dichloro-1-propene	ND	ND				ND	ND	ND	ND
Cyclohexane	0.042	ND				ND	0.041	ND	ND
Dibromochloromethane	ND	ND				ND	ND	ND	ND
Dichlorodifluoromethane	0.5	0.47				0.43	0.38	0.37	0.48
Ethylbenzene	0.042	ND				0.06	0.086	ND	ND
Hexachloro-1,3-butadiene	ND	ND				ND	ND	ND	ND
m & p- Xylene	0.14	ND				0.21	0.27	ND	ND
Methylene chloride	0.11	0.052				0.14	0.18	0.081	0.075
n-Heptane	0.1	0.067				0.11	0.16	0.13	0.11
n-Hexane	0.18	0.11				0.19	0.24	0.095	0.093
o-Xylene	0.063	ND				0.07	0.099	ND	ND
Propene	2.2	1.4				2	2.2	1.4	0.36
Styrene	ND	ND				ND	ND	ND	ND
Tetrachloroethene	0.045	ND				0.063	0.069	ND	ND
Tetrahydrofuran	0.17	ND				ND	ND	ND	ND
Toluene	0.49	0.19				0.7	0.9	0.29	0.31
trans-1,2-Dichloroethene	ND	ND				ND	ND	ND	ND
trans-1,3-Dichloro-1-propene	ND	ND				ND	ND	ND	ND
Trichloroethene (TCE)	0.061	0.094				0.22	0.53	0.21	ND
Trichlorofluoromethane	0.24	0.22				0.21	0.19	0.18	0.23

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	2/27	3/5	3/11	3/17	3/23	3/29	4/4	4/10	4/16
1,1,1-Trichloroethane	ND								
1,1,2,2-Tetrachloroethane	ND								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.07	0.065	0.07	0.073	0.057	0.057	0.061	0.056	0.058
1,1,2-Trichloroethane	ND								
1,1-Dichloroethane	ND								
1,1-Dichloroethene	ND								
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.046	ND	ND	0.051	ND
1,2-Dibromoethane	ND								
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND								
1,2-Dichlorobenzene	ND								
1,2-Dichloroethane	ND								
1,2-Dichloropropane	ND								
1,3,5-Trimethylbenzene	ND	0.062	ND	ND	ND	ND	ND	0.07	ND
1,3-Butadiene	ND								
1,3-Dichlorobenzene	ND								
1,4-Dichlorobenzene	ND								
1-Ethyl-4-methyl benzene	ND								
2-Butanone (MEK)	0.5	1.8	2.7	1.9	2.6	4	0.52	0.86	0.72
2-Hexanone	ND	ND	ND	ND	ND	0.45	ND	ND	ND
2-Methoxy-2-methyl propane (MTBE)	ND	0.16	0.13	0.1	1.4	0.064	ND	0.15	0.19
4-Methyl-2-pentanone (MIBK)	ND	ND	ND	ND	ND	0.16	ND	ND	ND
Acetone	2.6	5.2	12	8.1	11	12	5	7	4.5
Benzene	0.17	0.24	0.25	0.2	0.28	0.14	0.092	0.19	0.24
Bromodichloromethane	ND								
Bromoform	ND								
Bromomethane	ND	ND	0.13	ND	ND	ND	ND	ND	ND
Carbon disulfide	0.059	ND	ND	ND	ND	ND	0.057	ND	0.15
Carbon tetrachloride	0.1	0.094	0.1	0.098	0.13	0.13	0.039	0.041	0.099
Chlorobenzene	ND								
Chloroethane	ND	0.071	ND						
Chloroethene	ND								
Chloroform	ND								
Chloromethane	0.53	0.47	0.5	0.48	0.42	0.46	0.54	0.58	0.42
cis-1,2-Dichloroethene	ND								
cis-1,3-Dichloro-1-propene	ND								
Cyclohexane	ND								
Dibromochloromethane	ND								
Dichlorodifluoromethane	0.48	0.46	0.5	0.51	0.44	0.42	0.42	0.42	0.38
Ethylbenzene	ND	ND	ND	ND	0.056	ND	ND	ND	ND
Hexachloro-1,3-butadiene	ND								
m & p- Xylene	ND	0.11	0.1	ND	0.16	ND	ND	0.12	ND
Methylene chloride	0.35	0.045	0.1	0.068	0.11	0.055	0.053	0.088	0.086
n-Heptane	0.057	0.1	0.12	0.096	ND	0.088	0.073	0.15	0.088
n-Hexane	0.3	ND	0.1	0.099	0.28	0.061	ND	0.098	0.084
o-Xylene	ND	ND	ND	ND	0.061	ND	ND	ND	ND
Propene	0.6	2	0.82	0.98	1.8	1.7	0.31	0.98	0.62
Styrene	ND								
Tetrachloroethene	ND								
Tetrahydrofuran	ND								
Toluene	0.22	0.31	0.35	0.27	0.52	0.2	0.14	0.48	0.29
trans-1,2-Dichloroethene	ND								
trans-1,3-Dichloro-1-propene	ND								
Trichloroethene (TCE)	ND	0.23	0.096	0.28	ND	ND	0.12	0.14	0.064
Trichlorofluoromethane	0.29	0.22	0.25	0.24	0.22	0.21	0.21	0.2	0.2

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	4/22	4/28	5/4	5/10	5/16	5/22	5/28	6/3	6/9
1,1,1-Trichloroethane	ND								
1,1,2,2-Tetrachloroethane	ND								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.052	0.056	0.056	0.057	0.067	0.048	0.048	0.059	0.049
1,1,2-Trichloroethane	ND								
1,1-Dichloroethane	ND								
1,1-Dichloroethene	ND								
1,2,4-Trichlorobenzene	ND								
1,2,4-Trimethylbenzene	ND								
1,2-Dibromoethane	ND								
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND								
1,2-Dichlorobenzene	ND								
1,2-Dichloroethane	ND								
1,2-Dichloropropane	ND								
1,3,5-Trimethylbenzene	ND								
1,3-Butadiene	ND								
1,3-Dichlorobenzene	ND								
1,4-Dichlorobenzene	ND								
1-Ethyl-4-methyl benzene	ND								
2-Butanone (MEK)	0.43	0.29	0.28	0.81	0.46	0.3	0.73	2.6	5.4
2-Hexanone	ND	0.34							
2-Methoxy-2-methyl propane (MTBE)	0.18	ND	0.19	0.26	0.062	0.071	0.19	0.17	0.21
4-Methyl-2-pentanone (MIBK)	ND	0.12	ND						
Acetone	3.5	2.8	2.2	5	3.4	2.9	5.1	15	22
Benzene	0.22	0.076	0.11	0.12	0.13	0.11	0.16	0.14	0.12
Bromodichloromethane	ND								
Bromoform	ND								
Bromomethane	ND								
Carbon disulfide	ND	0.05	0.077						
Carbon tetrachloride	0.077	0.04	0.039	0.063	0.11	0.12	0.12	0.14	0.056
Chlorobenzene	ND								
Chloroethane	ND								
Chloroethene	ND								
Chloroform	ND								
Chloromethane	0.49	0.46	0.43	0.49	0.5	0.41	0.46	0.41	0.44
cis-1,2-Dichloroethene	ND								
cis-1,3-Dichloro-1-propene	ND								
Cyclohexane	0.042	ND							
Dibromochloromethane	ND								
Dichlorodifluoromethane	0.42	0.4	0.41	0.44	0.46	0.36	0.37	0.38	0.36
Ethylbenzene	ND								
Hexachloro-1,3-butadiene	ND								
m & p- Xylene	ND	0.077							
Methylene chloride	0.088	0.04	0.071	0.071	ND	ND	0.043	0.074	0.084
n-Heptane	0.06	0.044	0.051	0.078	0.062	0.042	0.06	0.06	ND
n-Hexane	0.087	ND	0.066	0.083	ND	ND	0.06	0.055	ND
o-Xylene	ND	0.041							
Propene	0.68	ND	0.24	0.67	0.27	0.23	0.52	0.81	2.5
Styrene	ND								
Tetrachloroethene	ND								
Tetrahydrofuran	ND	0.11	ND						
Toluene	0.3	0.14	0.23	0.24	0.21	0.13	0.21	0.33	0.4
trans-1,2-Dichloroethene	ND								
trans-1,3-Dichloro-1-propene	ND								
Trichloroethene (TCE)	ND	0.19	0.15	ND	0.13	ND	0.21	0.082	0.11
Trichlorofluoromethane	0.25	0.19	0.2	0.21	0.24	0.17	0.18	0.2	0.18

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	6/15	6/21	6/27	7/3	7/9	7/15	7/21	7/27	8/2
1,1,1-Trichloroethane	ND		ND						
1,1,2,2-Tetrachloroethane	ND		ND						
1,1,2-Trichloro-1,2,2-trifluoroethane	0.06	0.06	0.057	0.051	0.066	0.048	0.058		0.066
1,1,2-Trichloroethane	ND		ND						
1,1-Dichloroethane	ND		ND						
1,1-Dichloroethene	ND		ND						
1,2,4-Trichlorobenzene	ND		ND						
1,2,4-Trimethylbenzene	ND		ND						
1,2-Dibromoethane	ND		ND						
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND		ND						
1,2-Dichlorobenzene	ND		ND						
1,2-Dichloroethane	ND		ND						
1,2-Dichloropropane	ND		ND						
1,3,5-Trimethylbenzene	ND		ND						
1,3-Butadiene	ND		ND						
1,3-Dichlorobenzene	ND		ND						
1,4-Dichlorobenzene	ND		ND						
1-Ethyl-4-methyl benzene	ND		ND						
2-Butanone (MEK)	0.74	0.67	2	1.3	1.2	1	2.6		1
2-Hexanone	ND	ND	ND	ND	ND				
2-Methoxy-2-methyl propane (MTBE)	0.097	0.14	0.15	0.17	0.14	0.29	0.17		0.16
4-Methyl-2-pentanone (MIBK)	ND		ND						
Acetone	4.3	3.7	8.1	5.7	5.2	3.6	11		6.1
Benzene	0.079	0.12	0.08	0.08	0.11	0.19	0.16		0.12
Bromodichloromethane	ND		ND						
Bromoform	ND		ND						
Bromomethane	ND		ND						
Carbon disulfide	0.065	0.064	0.076	ND	ND	0.23	0.089		ND
Carbon tetrachloride	0.085	0.11	0.087	0.073	0.12	0.11	0.12		0.12
Chlorobenzene	ND		ND						
Chloroethane	ND	0.055	0.12	ND	0.059	ND	ND		0.07
Chloroethene	ND		ND						
Chloroform	ND		ND						
Chloromethane	0.7	0.57	0.57	0.43	0.5	0.47	0.43		0.48
cis-1,2-Dichloroethene	ND		ND						
cis-1,3-Dichloro-1-propene	ND		ND						
Cyclohexane	ND		ND						
Dibromochloromethane	ND		ND						
Dichlorodifluoromethane	0.43	0.42	0.42	0.38	0.44	0.38	0.39		0.4
Ethylbenzene	ND		ND						
Hexachloro-1,3-butadiene	ND		ND						
m & p- Xylene	ND	ND	0.078	ND	0.076	0.1	0.075		ND
Methylene chloride	0.044	0.053	0.055	ND	0.042	0.049	0.059		0.061
n-Heptane	ND	0.048	0.076	0.051	0.078	0.058	0.044		0.061
n-Hexane	0.042	0.094	0.075	ND	ND	0.19	0.1		0.083
o-Xylene	ND	ND	ND	ND	ND	0.04	ND		ND
Propene	0.31	0.45	1	0.5	0.51	0.5	1.1		0.45
Styrene	ND		ND						
Tetrachloroethene	ND		ND						
Tetrahydrofuran	ND		ND						
Toluene	0.32	0.32	0.35	0.29	0.19	0.48	0.32		0.39
trans-1,2-Dichloroethene	ND		ND						
trans-1,3-Dichloro-1-propene	ND		ND						
Trichloroethene (TCE)	0.24	0.14	0.075	ND	0.26	0.077	0.73		0.18
Trichlorofluoromethane	0.2	0.2	0.2	0.18	0.22	0.18	0.21		0.22

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Evansburg
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	8/8	8/14	8/20	8/26	9/1	9/7	9/13	9/19	9/25
1,1,1-Trichloroethane	ND	ND							
1,1,2,2-Tetrachloroethane	ND	ND							
1,1,2-Trichloro-1,2,2-trifluoroethane	0.055	0.05	0.054	0.07	0.073	0.069	0.07	0.06	
1,1,2-Trichloroethane	ND	ND							
1,1-Dichloroethane	ND	ND							
1,1-Dichloroethene	ND	ND							
1,2,4-Trichlorobenzene	ND	ND							
1,2,4-Trimethylbenzene	ND	ND							
1,2-Dibromoethane	ND	ND							
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND	ND							
1,2-Dichlorobenzene	ND	ND							
1,2-Dichloroethane	ND	ND							
1,2-Dichloropropane	ND	ND							
1,3,5-Trimethylbenzene	ND	ND							
1,3-Butadiene	ND	ND							
1,3-Dichlorobenzene	ND	ND							
1,4-Dichlorobenzene	ND	ND							
1-Ethyl-4-methyl benzene	ND	ND							
2-Butanone (MEK)	0.81	0.7	2.1	0.77	1.3	0.67	0.77	4.5	
2-Hexanone	ND			ND	ND	ND	ND	ND	ND
2-Methoxy-2-methyl propane (MTBE)	0.36	0.11	0.23	0.28	0.075	0.34	0.28	0.21	
4-Methyl-2-pentanone (MIBK)	ND	ND							
Acetone	6.2	4.8	10	6.1	7.1	4.6	7.2	26	
Benzene	0.14	0.073	0.11	0.12	0.099	0.16	0.16	0.11	
Bromodichloromethane	ND	ND							
Bromoform	ND	ND							
Bromomethane	ND	ND							
Carbon disulfide	0.081	ND	ND						
Carbon tetrachloride	0.083	0.081	0.086	0.061	0.063	0.065	0.053	0.063	
Chlorobenzene	ND	ND							
Chloroethane	ND	ND							
Chloroethene	ND	ND							
Chloroform	ND	ND							
Chloromethane	0.45	0.43	0.42	0.47	0.6	0.5	0.48	0.42	
cis-1,2-Dichloroethene	ND	ND							
cis-1,3-Dichloro-1-propene	ND	ND							
Cyclohexane	ND	ND							
Dibromochloromethane	ND	ND							
Dichlorodifluoromethane	0.4	0.35	0.38	0.47	0.48	0.48	0.5	0.42	
Ethylbenzene	ND	ND	ND	ND	ND	0.045	ND	ND	ND
Hexachloro-1,3-butadiene	ND	ND							
m & p- Xylene	0.11	ND	0.07	0.093	ND	0.12	0.11	0.073	
Methylene chloride	0.079	ND	0.04	0.066	0.041	0.073	0.082	0.043	
n-Heptane	0.089	ND	0.13	0.064	ND	0.049	0.067	0.17	
n-Hexane	0.31	0.055	ND	0.11	0.049	0.1	0.1	ND	
o-Xylene	0.041	ND	ND	ND	ND	0.046	0.043	ND	
Propene	1	0.32	1.6	0.74	0.48	0.64	0.75	2	
Styrene	ND	ND							
Tetrachloroethene	ND	ND	ND	ND	ND	0.046	ND	ND	ND
Tetrahydrofuran	ND	ND							
Toluene	0.47	0.32	0.4	0.42	0.32	0.51	0.56	0.34	
trans-1,2-Dichloroethene	ND	ND							
trans-1,3-Dichloro-1-propene	ND	ND							
Trichloroethene (TCE)	0.13	ND	0.052	0.051	0.28	0.16	0.38	0.11	
Trichlorofluoromethane	0.19	0.17	0.18	0.24	0.24	0.24	0.24	0.2	

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2008
 Units: ppbv
 Analysis: Scan

Notes:
 Non-detects & data <0.005 ppbv reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages not calculated if %<MDL is 50% or greater
 Samples are collected over a 24-hour period
 Analysis uses EPA Method TO-15

MDL - Method Detection Limit
NUM - No. of Valid Samples
AVG - Average
SAMP% - Valid Samples / Possible Samples
MIN - Minimum **MAX** - Maximum
STD - Standard Deviation

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<MDL=.5MDL

Compounds	MDL	NUM	#<MDL	%<MDL	AVG	SAMP%	MIN	MAX	STD
1,1,1-Trichloroethane	0.02	32	32	100		86	0.01	0.01	0.00
1,1,2,2-Tetrachloroethane	0.02	32	32	100		86	0.01	0.01	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.02	32	0	0	0.07	86	0.06	0.08	0.01
1,1,2-Trichloroethane	0.04	32	32	100		86	0.02	0.02	0.00
1,1-Dichloroethane	0.02	32	32	100		86	0.01	0.01	0.00
1,1-Dichloroethene	0.04	32	32	100		86	0.02	0.02	0.00
1,2,4-Trichlorobenzene	0.02	32	32	100		86	0.01	0.01	0.00
1,2,4-Trimethylbenzene	0.02	32	29	91		86	0.01	0.07	0.02
1,2-Dibromoethane	0.04	32	32	100		86	0.02	0.02	0.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.02	32	32	100		86	0.01	0.01	0.00
1,2-Dichlorobenzene	0.02	32	32	100		86	0.01	0.01	0.00
1,2-Dichloroethane	0.02	32	32	100		86	0.01	0.01	0.00
1,2-Dichloropropane	0.04	32	32	100		86	0.02	0.02	0.00
1,3,5-Trimethylbenzene	0.02	32	31	97		86	0.01	0.06	0.01
1,3-Butadiene	0.08	32	32	100		86	0.04	0.04	0.00
1,3-Dichlorobenzene	0.02	32	32	100		86	0.01	0.01	0.00
1,4-Dichlorobenzene	0.02	32	32	100		86	0.01	0.01	0.00
1-Ethyl-4-methyl benzene	0.02	32	32	100		86	0.01	0.01	0.00
2-Butanone (MEK)	0.22	32	0	0	1.69	86	0.22	7.70	1.78
2-Hexanone	0.20	32	26	81		86	0.10	2.00	0.60
2-Methoxy-2-methyl propane (MTBE)	0.02	32	32	100		86	0.01	0.01	0.00
4-Methyl-2-pentanone (MIBK)	0.22	32	27	84		86	0.11	0.56	0.17
Acetone	0.21	32	0	0	11.31	86	2.30	60.00	11.98
Benzene	0.04	32	0	0	0.18	86	0.09	0.54	0.08
Bromodichloromethane	0.04	32	32	100		86	0.02	0.02	0.00
Bromoform	0.02	32	32	100		86	0.01	0.01	0.00
Bromomethane	0.04	32	31	97		86	0.02	0.08	0.01
Carbon disulfide	0.20	32	32	100		86	0.10	0.10	0.00
Carbon tetrachloride	0.02	32	0	0	0.07	86	0.05	0.09	0.01
Chlorobenzene	0.04	32	32	100		86	0.02	0.02	0.00
Chloroethane	0.04	32	20	63		86	0.02	0.20	0.06
Chloroethene	0.04	32	32	100		86	0.02	0.02	0.00
Chloroform	0.02	32	31	97		86	0.01	0.02	0.00
Chloromethane	0.04	32	0	0	0.48	86	0.35	0.61	0.06
cis-1,2-Dichloroethene	0.04	32	32	100		86	0.02	0.02	0.00
cis-1,3-Dichloro-1-propene	0.04	32	32	100		86	0.02	0.02	0.00
Cyclohexane	0.02	32	26	81		86	0.01	0.14	0.03
Dibromochloromethane	0.04	32	32	100		86	0.02	0.02	0.00
Dichlorodifluoromethane	0.02	32	0	0	0.43	86	0.35	0.54	0.04
Ethylbenzene	0.04	32	26	81		86	0.02	0.07	0.02
Hexachloro-1,3-butadiene	0.02	32	32	100		86	0.01	0.01	0.00
m & p- Xylene	0.06	32	19	59		86	0.03	0.21	0.07
Methylene chloride	0.04	32	6	19	0.09	86	0.02	1.10	0.18
n-Heptane	0.02	32	5	16	0.08	86	0.01	0.32	0.06
n-Hexane	0.02	32	6	19	0.10	86	0.01	0.45	0.09
o-Xylene	0.04	32	25	78		86	0.02	0.08	0.03
Propene	0.20	32	0	0	1.08	86	0.49	2.30	0.41
Styrene	0.02	32	32	100		86	0.01	0.01	0.00
Tetrachloroethene	0.04	32	27	84		86	0.02	0.07	0.02
Tetrahydrofuran	0.02	32	26	81		86	0.01	0.29	0.05
Toluene	0.04	32	0	0	0.22	86	0.04	0.72	0.16
trans-1,2-Dichloroethene	0.04	32	32	100		86	0.02	0.02	0.00
trans-1,3-Dichloro-1-propene	0.04	32	32	100		86	0.02	0.02	0.00
Trichloroethylene (TCE)	0.02	32	6	19	0.08	86	0.01	0.24	0.07
Trichlorofluoromethane	0.02	32	0	0	0.29	86	0.22	0.40	0.04

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2008
 Units: ppbv
 Analysis: Scan

DRAFT

Compounds	1/1	1/6	1/7	1/13	1/19	1/25	1/31	2/2	2/6
1,1,1-Trichloroethane	0		0	0	0	0	0		0
1,1,2,2-Tetrachloroethane	0		0	0	0	0	0		0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069		0.073	0.07	0.064	0.068	0.071		0.065
1,1,2-Trichloroethane	0		0	0	0	0	0		0
1,1-Dichloroethane	0		0	0	0	0	0		0
1,1-Dichloroethene	0		0	0	0	0	0		0
1,2,4-Trichlorobenzene	0		0	0	0	0	0		0
1,2,4-Trimethylbenzene	0		0.066	0	0	0	0		0.05
1,2-Dibromoethane	0		0	0	0	0	0		0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0		0	0	0	0	0		0
1,2-Dichlorobenzene	0		0	0	0	0	0		0
1,2-Dichloroethane	0		0	0	0	0	0		0
1,2-Dichloropropane	0		0	0	0	0	0		0
1,3,5-Trimethylbenzene	0		0.064	0	0	0	0		0
1,3-Butadiene	0		0	0	0	0	0		0
1,3-Dichlorobenzene	0		0	0	0	0	0		0
1,4-Dichlorobenzene	0		0	0	0	0	0		0
1-Ethyl-4-methyl benzene	0		0	0	0	0	0		0
2-Butanone (MEK)	0.9		0.52	0.4	0.22	2.4	0.33		0.9
2-Hexanone	0		0	0	0	0	0		0
2-Methoxy-2-methyl propane (MTBE)	0		0	0	0	0	0		0
4-Methyl-2-pentanone (MIBK)	0		0	0	0	0	0		0
Acetone	4.7		4.4	3.2	2.3	8.9	2.9		5.2
Benzene	0.24		0.54	0.32	0.17	0.21	0.22		0.21
Bromodichloromethane	0		0	0	0	0	0		0
Bromoform	0		0	0	0	0	0		0
Bromomethane	0		0	0	0	0	0		0
Carbon disulfide	0		0	0	0	0	0		0
Carbon tetrachloride	0.074		0.077	0.071	0.064	0.084	0.086		0.079
Chlorobenzene	0		0	0	0	0	0		0
Chloroethane	0		0	0	0	0	0		0
Chloroethene	0		0	0	0	0	0		0
Chloroform	0		0	0	0	0	0		0
Chloromethane	0.44		0.54	0.42	0.4	0.5	0.53		0.5
cis-1,2-Dichloroethene	0		0	0	0	0	0		0
cis-1,3-Dichloro-1-propene	0		0	0	0	0	0		0
Cyclohexane	0		0.049	0	0	0	0		0
Dibromochloromethane	0		0	0	0	0	0		0
Dichlorodifluoromethane	0.43		0.46	0.42	0.38	0.45	0.47		0.43
Ethylbenzene	0		0.07	0	0	0	0		0.043
Hexachloro-1,3-butadiene	0		0	0	0	0	0		0
m & p- Xylene	0		0.21	0	0	0	0		0.12
Methylene chloride	0		0.094	0	0	0.045	0.065		0.09
n-Heptane	0.085		0.15	0.067	0	0.06	0.05		0.089
n-Hexane	0.13		0.25	0.11	0.07	0.085	0.11		0.17
o-Xylene	0		0.078	0	0	0	0		0.046
Propene	1.4		2.3	1.6	0.74	1.1	0.83		1.2
Styrene	0		0	0	0	0	0		0
Tetrachloroethene	0		0	0	0	0	0		0.042
Tetrahydrofuran	0		0	0	0	0	0		0
Toluene	0.19		0.64	0.25	0.1	0.15	0.16		0.36
trans-1,2-Dichloroethene	0		0	0	0	0	0		0
trans-1,3-Dichloro-1-propene	0		0	0	0	0	0		0
Trichloroethylene (TCE)	0		0.16	0	0.18	0.045	0.11		0.16
Trichlorofluoromethane	0.25		0.38	0.26	0.25	0.29	0.31		0.34

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2008
 Units: ppbv
 Analysis: Scan

DRAFT

Compounds	2/12	2/18	2/24	3/1	3/7	3/13	3/19	3/24	3/25
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.06	0.056	0.06	0.062	0.065	0.069	0.072	0.069	0.068
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,2-Dibromoethane	0	0	0	0	0	0	0	0	0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,3-Butadiene	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0	0	0	0	0	0
2-Butanone (MEK)	0.33	1.2	0.34	0.36	0.42	1.3	0.92	0.6	0.41
2-Hexanone	0	0	0	0	0	0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0	0	0	0	0	0	0	0	0
Acetone	2.8	6.1	2.8	2.8	2.6	6.6	7.1	4.7	3.3
Benzene	0.21	0.098	0.21	0.11	0.2	0.23	0.22	0.17	0.14
Bromodichloromethane	0	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0	0
Carbon disulfide	0	0	0	0	0	0	0	0	0
Carbon tetrachloride	0.07	0.064	0.071	0.071	0.074	0.082	0.086	0.081	0.079
Chlorobenzene	0	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0	0	0	0	0
Chloroethene	0	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0	0
Chloromethane	0.44	0.42	0.44	0.44	0.46	0.48	0.51	0.49	0.49
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Cyclohexane	0	0	0	0	0	0	0.064	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	0.41	0.36	0.39	0.4	0.43	0.44	0.47	0.44	0.43
Ethylbenzene	0	0	0	0	0	0	0	0	0
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0	0
m & p- Xylene	0	0	0	0	0.061	0.071	0.098	0	0
Methylene chloride	0.054	0	0.052	0	0.11	0.063	0.074	0.056	0.062
n-Heptane	0.041	0.053	0.031	0	0.075	0.1	0.07	0	0.036
n-Hexane	0.1	0.063	0.07	0	0.12	0.11	0.45	0.053	0.058
o-Xylene	0	0	0	0	0	0	0	0	0
Propene	0.79	0.74	0.77	0.49	0.88	1.2	0.93	0.88	0.57
Styrene	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0	0	0	0	0	0	0	0
Tetrahydrofuran	0	0	0	0	0	0	0	0	0
Toluene	0.14	0.063	0.12	0.041	0.23	0.23	0.51	0.1	0.088
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Trichloroethylene (TCE)	0.032	0.036	0.14	0.031	0.022	0.2	0.036	0	0
Trichlorofluoromethane	0.26	0.27	0.29	0.26	0.27	0.31	0.35	0.28	0.3

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2008
 Units: ppbv
 Analysis: Scan

DRAFT

Compounds	3/31	4/6	4/8	4/12	4/18	4/24	4/30	5/6	5/7
1,1,1-Trichloroethane	0	0	0	0		0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0		0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.061	0.075	0.07	0.071		0.07	0.068	0.069	0.082
1,1,2-Trichloroethane	0	0	0	0		0	0	0	0
1,1-Dichloroethane	0	0	0	0		0	0	0	0
1,1-Dichloroethene	0	0	0	0		0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0		0	0	0	0
1,2,4-Trimethylbenzene	0	0	0	0		0	0	0	0
1,2-Dibromoethane	0	0	0	0		0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0	0		0	0	0	0
1,2-Dichlorobenzene	0	0	0	0		0	0	0	0
1,2-Dichloroethane	0	0	0	0		0	0	0	0
1,2-Dichloropropane	0	0	0	0		0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0		0	0	0	0
1,3-Butadiene	0	0	0	0		0	0	0	0
1,3-Dichlorobenzene	0	0	0	0		0	0	0	0
1,4-Dichlorobenzene	0	0	0	0		0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0		0	0	0	0
2-Butanone (MEK)	0.47	4.6	1.8	0.77		0.76	0.65	0.8	1.5
2-Hexanone	0	0.44	0	0		0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0		0	0	0	0
4-Methyl-2-pentanone (MIBK)	0	0.22	0	0		0	0	0	0
Acetone	4.2	17	8.9	8.3		7.5	5.4	6.3	15
Benzene	0.19	0.17	0.13	0.17		0.1	0.13	0.16	0.21
Bromodichloromethane	0	0	0	0		0	0	0	0
Bromoform	0	0	0	0		0	0	0	0
Bromomethane	0.076	0	0	0		0	0	0	0
Carbon disulfide	0	0	0	0		0	0	0	0
Carbon tetrachloride	0.07	0.089	0.078	0.08		0.077	0.077	0.051	0.068
Chlorobenzene	0	0	0	0		0	0	0	0
Chloroethane	0	0	0	0.093		0.11	0	0.11	0.2
Chloroethene	0	0	0	0		0	0	0	0
Chloroform	0	0	0	0		0	0	0	0.022
Chloromethane	0.42	0.54	0.49	0.53		0.48	0.47	0.5	0.58
cis-1,2-Dichloroethene	0	0	0	0		0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0		0	0	0	0
Cyclohexane	0	0	0	0		0	0	0.023	0.031
Dibromochloromethane	0	0	0	0		0	0	0	0
Dichlorodifluoromethane	0.39	0.48	0.44	0.45		0.42	0.44	0.5	0.53
Ethylbenzene	0	0	0	0		0	0	0.058	0.058
Hexachloro-1,3-butadiene	0	0	0	0		0	0	0	0
m & p- Xylene	0.081	0	0	0		0	0	0.19	0.19
Methylene chloride	0.11	0.063	0.074	0.059		0.053	0.056	0.07	0.1
n-Heptane	0.12	0.08	0.066	0.1		0.1	0.036	0.049	0.1
n-Hexane	0.11	0.078	0.086	0.12		0.062	0.076	0.13	0.16
o-Xylene	0	0	0	0		0	0	0.074	0.072
Propene	0.75	1.3	0.8	0.83		0.55	0.6	0.98	1.2
Styrene	0	0	0	0		0	0	0	0
Tetrachloroethene	0	0	0	0		0	0.066	0.05	0
Tetrahydrofuran	0	0	0	0		0	0	0	0
Toluene	0.27	0.15	0.18	0.18		0.14	0.15	0.11	0.43
trans-1,2-Dichloroethene	0	0	0	0		0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0		0	0	0	0
Trichloroethylene (TCE)	0.031	0	0.028	0.05		0.04	0.24	0.14	0.12
Trichlorofluoromethane	0.26	0.27	0.28	0.31		0.26	0.29	0.3	0.4

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2007
 Units: ppbv
 Analysis: Scan

Notes:
 Non-detects & data <0.005 ppbv reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages not calculated if %<MDL is 50% or greater
 Samples are collected over a 24-hour period
 Analysis uses EPA Method TO-15

MDL - Method Detection Limit
NUM - No. of Valid Samples
AVG - Average
SAMP% - Valid Samples / Possible Samples
MIN - Minimum **MAX** - Maximum
STD - Standard Deviation

<MDL=.5MDL

Compounds	MDL	NUM	#<MDL	%<MDL	AVG	SAMP%	MIN	MAX	STD
1,1,1-Trichloroethane	0.04	31	31	100		82	0.02	0.02	0.00
1,1,2,2-Tetrachloroethane	0.04	31	31	100		82	0.02	0.02	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	31	0	0	0.07	82	0.05	0.09	0.01
1,1,2-Trichloroethane	0.06	31	31	100		82	0.03	0.03	0.00
1,1-Dichloroethane	0.04	31	31	100		82	0.02	0.02	0.00
1,1-Dichloroethene	0.06	31	31	100		82	0.03	0.03	0.01
1,2,4-Trichlorobenzene	0.06	31	31	100		82	0.03	0.03	0.00
1,2,4-Trimethylbenzene	0.04	31	12	39	0.04	82	0.02	0.11	0.03
1,2-Dibromoethane	0.06	31	31	100		82	0.03	0.03	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	31	31	100		82	0.02	0.02	0.00
1,2-Dichlorobenzene	0.04	31	31	100		82	0.02	0.02	0.00
1,2-Dichloroethane	0.06	31	31	100		82	0.03	0.03	0.00
1,2-Dichloropropane	0.06	31	31	100		82	0.03	0.03	0.00
1,3,5-Trimethylbenzene	0.04	31	31	100		82	0.02	0.02	0.00
1,3-Butadiene	0.18	31	30	97		82	0.09	0.18	0.03
1,3-Dichlorobenzene	0.04	31	31	100		82	0.02	0.02	0.00
1,4-Dichlorobenzene	0.04	31	31	100		82	0.02	0.02	0.00
1-Ethyl-4-methyl benzene	0.04	31	31	100		82	0.02	0.02	0.00
2-Butanone (MEK)	0.14	31	0	0	1.57	82	0.27	5.70	1.33
2-Hexanone	0.14	31	24	77		82	0.07	1.00	0.29
2-Methoxy-2-methyl propane (MTBE)	0.04	31	30	97		82	0.02	0.08	0.01
4-Methyl-2-pentanone (MIBK)	0.18	31	23	74		82	0.09	0.37	0.11
Acetone	0.14	31	0	0	9.27	82	3.40	23.00	5.13
Benzene	0.06	31	0	0	0.19	82	0.08	0.60	0.11
Bromodichloromethane	0.06	31	31	100		82	0.03	0.03	0.00
Bromoform	0.04	31	31	100		82	0.02	0.02	0.00
Bromomethane	0.06	31	31	100		82	0.03	0.03	0.00
Carbon disulfide	0.08	31	12	39	0.19	82	0.04	0.89	0.21
Carbon tetrachloride	0.04	31	0	0	0.08	82	0.06	0.13	0.02
Chlorobenzene	0.06	31	31	100		82	0.03	0.03	0.00
Chloroethane	0.06	31	26	84		82	0.03	0.10	0.03
Chloroethene	0.06	31	31	100		82	0.03	0.03	0.00
Chloroform	0.06	31	31	100		82	0.03	0.03	0.00
Chloromethane	0.06	31	0	0	0.44	82	0.35	0.57	0.05
cis-1,2-Dichloroethene	0.06	31	31	100		82	0.03	0.03	0.00
cis-1,3-Dichloro-1-propene	0.04	31	31	100		82	0.02	0.02	0.00
Cyclohexane	0.04	31	27	87		82	0.02	0.11	0.03
Dibromochloromethane	0.06	31	31	100		82	0.03	0.03	0.00
Dichlorodifluoromethane	0.04	31	0	0	0.43	82	0.31	0.48	0.04
Ethylbenzene	0.04	31	16	52		82	0.02	0.12	0.03
Hexachloro-1,3-butadiene	0.04	31	31	100		82	0.02	0.02	0.00
m & p- Xylene	0.10	31	11	35	0.12	82	0.05	0.38	0.09
Methylene chloride	0.08	31	22	71		82	0.04	1.10	0.19
n-Heptane	0.04	31	1	3	0.09	82	0.02	0.15	0.03
n-Hexane	0.04	31	4	13	0.13	82	0.02	0.34	0.07
o-Xylene	0.04	31	7	23	0.05	82	0.02	0.13	0.03
Propene	0.06	31	0	0	1.16	82	0.38	3.00	0.59
Styrene	0.04	31	31	100		82	0.02	0.02	0.00
Tetrachloroethene	0.06	31	30	97		82	0.03	0.06	0.01
Tetrahydrofuran	0.04	31	31	100		82	0.02	0.02	0.00
Toluene	0.06	31	0	0	0.29	82	0.13	0.51	0.10
trans-1,2-Dichloroethene	0.10	31	31	100		82	0.05	0.05	0.00
trans-1,3-Dichloro-1-propene	0.04	31	31	100		82	0.02	0.02	0.00
Trichloroethylene (TCE)	0.06	31	6	19	0.75	82	0.03	18.00	3.15
Trichlorofluoromethane	0.04	31	0	0	0.34	82	0.24	0.49	0.07

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	5/18	5/24	5/30	6/5	6/11	6/17	6/23	6/29	7/5
1,1,1-Trichloroethane	0	0	0		0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0		0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.052	0.046	0.058		0.067	0.065	0.068	0.072	0.066
1,1,2-Trichloroethane	0	0	0		0	0	0	0	0
1,1-Dichloroethane	0	0	0		0	0	0	0	0
1,1-Dichloroethene	0	0	0		0	0	0	0.052	0
1,2,4-Trichlorobenzene	0	0	0		0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0		0.042	0	0	0.048	0.053
1,2-Dibromoethane	0	0	0		0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0		0	0	0	0	0
1,2-Dichlorobenzene	0	0	0		0	0	0	0	0
1,2-Dichloroethane	0	0	0		0	0	0	0	0
1,2-Dichloropropane	0	0	0		0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0		0	0	0	0	0
1,3-Butadiene	0	0	0		0	0	0	0	0
1,3-Dichlorobenzene	0	0	0		0	0	0	0	0
1,4-Dichlorobenzene	0	0	0		0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0		0	0	0	0	0
2-Butanone (MEK)	0.77	0.53	0.51		0.94	4.9	3.8	2.7	0.98
2-Hexanone	0.094	0	0		0	1	0.94	0.49	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0.078		0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0.048	0	0		0.076	0.37	0.31	0.25	0
Acetone	6.8	5.6	4.1		10	19	18	18	6.2
Benzene	0.098	0.082	0.15		0.12	0.15	0.088	0.17	0.1
Bromodichloromethane	0	0	0		0	0	0	0	0
Bromoform	0	0	0		0	0	0	0	0
Bromomethane	0	0	0		0	0	0	0	0
Carbon disulfide	0	0	0		0.29	0.33	0.085	0.11	0.088
Carbon tetrachloride	0.078	0.062	0.079		0.071	0.073	0.072	0.079	0.073
Chlorobenzene	0	0	0		0	0	0	0	0
Chloroethane	0	0.06	0.066		0	0	0	0	0
Chloroethene	0	0	0		0	0	0	0	0
Chloroform	0	0	0		0	0	0	0	0
Chloromethane	0.57	0.39	0.37		0.48	0.48	0.45	0.5	0.49
cis-1,2-Dichloroethene	0	0	0		0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0		0	0	0	0	0
Cyclohexane	0	0	0		0	0	0	0	0
Dibromochloromethane	0	0	0		0	0	0	0	0
Dichlorodifluoromethane	0.47	0.31	0.35		0.45	0.45	0.45	0.46	0.45
Ethylbenzene	0	0	0.048		0	0	0	0.048	0
Hexachloro-1,3-butadiene	0	0	0		0	0	0	0	0
m & p- Xylene	0	0	0.15		0.097	0.11	0	0.13	0
Methylene chloride	0.066	0.079	0.093		0.062	0.05	0.041	0.061	0.059
n-Heptane	0.093	0.08	0.061		0.13	0.12	0	0.15	0.064
n-Hexane	0	0	0.14		0.12	0.1	0	0.18	0.072
o-Xylene	0	0	0.063		0.048	0.062	0.042	0.073	0
Propene	0.57	0.38	0.71		0.82	1.7	1	1.4	0.56
Styrene	0	0	0		0	0	0	0	0
Tetrachloroethene	0	0	0		0	0	0	0	0
Tetrahydrofuran	0	0	0		0	0	0	0	0
Toluene	0.13	0.13	0.21		0.26	0.3	0.17	0.34	0.17
trans-1,2-Dichloroethene	0	0	0		0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0		0	0	0	0	0
Trichloroethylene (TCE)	0	0	0.38		0.27	0.21	0.48	18	0.12
Trichlorofluoromethane	0.49	0.27	0.31		0.35	0.35	0.29	0.45	0.44

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	7/11	7/17	7/23	7/29	8/4	8/10	8/16	8/22	8/28
1,1,1-Trichloroethane	0	0		0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0		0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.07	0.064		0.079	0.075	0.074	0.089	0.072	0.064
1,1,2-Trichloroethane	0	0		0	0	0	0	0	0
1,1-Dichloroethane	0	0		0	0	0	0	0	0
1,1-Dichloroethene	0	0		0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0		0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0.081		0.056	0.043	0.044	0.066	0	0.056
1,2-Dibromoethane	0	0		0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0		0	0	0	0	0	0
1,2-Dichlorobenzene	0	0		0	0	0	0	0	0
1,2-Dichloroethane	0	0		0	0	0	0	0	0
1,2-Dichloropropane	0	0		0	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0		0	0	0	0	0	0
1,3-Butadiene	0.18	0		0	0	0	0	0	0
1,3-Dichlorobenzene	0	0		0	0	0	0	0	0
1,4-Dichlorobenzene	0	0		0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0		0	0	0	0	0	0
2-Butanone (MEK)	2.1	0.91		3.8	1.5	0.64	1.7	0.44	1.1
2-Hexanone	0.31	0		0.3	0	0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0		0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0.21	0.082		0.13	0	0	0	0	0
Acetone	13	7		19	12	5.9	11	3.4	9.3
Benzene	0.15	0.15		0.18	0.13	0.13	0.24	0.097	0.15
Bromodichloromethane	0	0		0	0	0	0	0	0
Bromoform	0	0		0	0	0	0	0	0
Bromomethane	0	0		0	0	0	0	0	0
Carbon disulfide	0.21	0		0.2	0.89	0.12	0.14	0	0.22
Carbon tetrachloride	0.075	0.069		0.11	0.074	0.074	0.12	0.072	0.069
Chlorobenzene	0	0		0	0	0	0	0	0
Chloroethane	0	0		0	0.1	0.083	0.074	0	0
Chloroethene	0	0		0	0	0	0	0	0
Chloroform	0	0		0	0	0	0	0	0
Chloromethane	0.52	0.45		0.44	0.49	0.52	0.44	0.41	0.41
cis-1,2-Dichloroethene	0	0		0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0		0	0	0	0	0	0
Cyclohexane	0	0		0	0	0	0	0	0
Dibromochloromethane	0	0		0	0	0	0	0	0
Dichlorodifluoromethane	0.44	0.42		0.47	0.46	0.46	0.48	0.45	0.43
Ethylbenzene	0	0.048		0	0	0	0.062	0	0.049
Hexachloro-1,3-butadiene	0	0		0	0	0	0	0	0
m & p- Xylene	0.095	0.14		0.19	0.12	0	0.18	0	0.15
Methylene chloride	0.067	0.062		0.093	0	0	0.086	1.1	0.1
n-Heptane	0.091	0.096		0.061	0.09	0.079	0.08	0.14	0.096
n-Hexane	0.14	0.16		0.13	0.1	0.1	0.18	0.086	0.12
o-Xylene	0.054	0.067		0.09	0.059	0.041	0.082	0	0.059
Propene	2.2	0.64		1.7	0.76	0.7	1	0.6	0.75
Styrene	0	0		0	0	0	0	0	0
Tetrachloroethene	0	0		0	0	0	0	0	0
Tetrahydrofuran	0	0		0	0	0	0	0	0
Toluene	0.28	0.36		0.22	0.26	0.21	0.31	0.36	0.37
trans-1,2-Dichloroethene	0	0		0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0		0	0	0	0	0	0
Trichloroethylene (TCE)	0.14	0.34		0.18	0.15	0	0.28	0	0.065
Trichlorofluoromethane	0.43	0.34		0.38	0.38	0.4	0.46	0.3	0.35

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Collegeville
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	9/3	9/9	9/15	9/21	9/27	10/3	10/9	10/15	10/21
1,1,1-Trichloroethane	0				0	0	0	0	0
1,1,2,2-Tetrachloroethane	0				0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064				0.061	0.073	0.066	0.067	0.076
1,1,2-Trichloroethane	0				0	0	0	0	0
1,1-Dichloroethane	0				0	0	0	0	0
1,1-Dichloroethene	0				0	0	0	0	0
1,2,4-Trichlorobenzene	0				0	0	0	0	0
1,2,4-Trimethylbenzene	0				0	0.052	0.057	0.075	0.04
1,2-Dibromoethane	0				0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0				0	0	0	0	0
1,2-Dichlorobenzene	0				0	0	0	0	0
1,2-Dichloroethane	0				0	0	0	0	0
1,2-Dichloropropane	0				0	0	0	0	0
1,3,5-Trimethylbenzene	0				0	0	0	0	0
1,3-Butadiene	0				0	0	0	0	0
1,3-Dichlorobenzene	0				0	0	0	0	0
1,4-Dichlorobenzene	0				0	0	0	0	0
1-Ethyl-4-methyl benzene	0				0	0	0	0	0
2-Butanone (MEK)	0.72				0.65	5.7	0.82	1.8	2.2
2-Hexanone	0				0	0.93	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0				0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0				0	0.19	0	0.18	0.21
Acetone	5.3				9	23	6.2	7.9	11
Benzene	0.14				0.15	0.15	0.15	0.23	0.15
Bromodichloromethane	0				0	0	0	0	0
Bromoform	0				0	0	0	0	0
Bromomethane	0				0	0	0	0	0
Carbon disulfide	0.19				0.54	0.54	0	0.46	0.4
Carbon tetrachloride	0.067				0.077	0.13	0.084	0.079	0.087
Chlorobenzene	0				0	0	0	0	0
Chloroethane	0				0	0	0	0	0
Chloroethene	0				0	0	0	0	0
Chloroform	0				0	0	0	0	0
Chloromethane	0.39				0.45	0.41	0.47	0.39	0.46
cis-1,2-Dichloroethene	0				0	0	0	0	0
cis-1,3-Dichloro-1-propene	0				0	0	0	0	0
Cyclohexane	0				0	0	0	0	0
Dibromochloromethane	0				0	0	0	0	0
Dichlorodifluoromethane	0.43				0.41	0.45	0.42	0.42	0.47
Ethylbenzene	0				0	0.049	0	0.08	0.079
Hexachloro-1,3-butadiene	0				0	0	0	0	0
m & p- Xylene	0.1				0	0.14	0.12	0.24	0.24
Methylene chloride	0				0	0	0.094	0	0
n-Heptane	0.071				0.14	0.07	0.072	0.094	0.088
n-Hexane	0.1				0.13	0	0.12	0.16	0.12
o-Xylene	0.042				0	0.068	0.05	0.095	0.084
Propene	0.8				0.85	1.7	0.66	1.5	1.2
Styrene	0				0	0	0	0	0
Tetrachloroethene	0				0	0	0	0	0
Tetrahydrofuran	0				0	0	0	0	0
Toluene	0.29				0.24	0.19	0.34	0.51	0.25
trans-1,2-Dichloroethene	0				0	0	0	0	0
trans-1,3-Dichloro-1-propene	0				0	0	0	0	0
Trichloroethylene (TCE)	0.069				0	0.076	0.16	0.46	0.076
Trichlorofluoromethane	0.35				0.34	0.42	0.3	0.36	0.4

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2007
 Units: ppbv
 Analysis: Scan

Notes:
 Non-detects & data <0.005 ppbv reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages not calculated if %<MDL is 50% or greater
 Samples are collected over a 24-hour period
 Analysis uses EPA Method TO-15

MDL - Method Detection Limit
NUM - No. of Valid Samples
AVG - Average
SAMP% - Valid Samples / Possible Samples
MIN - Minimum **MAX** - Maximum
STD - Standard Deviation

<MDL=.5MDL

Compounds	MDL	NUM	#<MDL	%<MDL	AVG	SAMP%	MIN	MAX	STD
1,1,1-Trichloroethane	0.04	21	21	100		95	0.02	0.02	0.00
1,1,2,2-Tetrachloroethane	0.04	21	21	100		95	0.02	0.02	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	21	0	0	0.06	95	0.05	0.08	0.01
1,1,2-Trichloroethane	0.06	21	21	100		95	0.03	0.03	0.00
1,1-Dichloroethane	0.04	21	21	100		95	0.02	0.02	0.00
1,1-Dichloroethene	0.06	21	21	100		95	0.03	0.03	0.00
1,2,4-Trichlorobenzene	0.06	21	21	100		95	0.03	0.03	0.00
1,2,4-Trimethylbenzene	0.04	21	18	86		95	0.02	0.06	0.02
1,2-Dibromoethane	0.06	21	21	100		95	0.03	0.03	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	21	21	100		95	0.02	0.02	0.00
1,2-Dichlorobenzene	0.04	21	21	100		95	0.02	0.02	0.00
1,2-Dichloroethane	0.06	21	21	100		95	0.03	0.03	0.00
1,2-Dichloropropane	0.06	21	21	100		95	0.03	0.03	0.00
1,3,5-Trimethylbenzene	0.04	21	21	100		95	0.02	0.02	0.00
1,3-Butadiene	0.18	21	21	100		95	0.09	0.09	0.03
1,3-Dichlorobenzene	0.04	21	21	100		95	0.02	0.02	0.00
1,4-Dichlorobenzene	0.04	21	21	100		95	0.02	0.02	0.00
1-Ethyl-4-methyl benzene	0.04	21	21	100		95	0.02	0.02	0.00
2-Butanone (MEK)	0.14	21	0	0	1.12	95	0.22	4.80	1.16
2-Hexanone	0.14	21	20	95		95	0.07	1.40	0.30
2-Methoxy-2-methyl propane (MTBE)	0.04	21	21	100		95	0.02	0.02	0.00
4-Methyl-2-pentanone (MIBK)	0.18	21	19	90		95	0.09	0.27	0.07
Acetone	0.14	21	0	0	6.31	95	1.20	15.00	3.66
Benzene	0.06	21	0	0	0.19	95	0.07	0.40	0.07
Bromodichloromethane	0.06	21	21	100		95	0.03	0.03	0.00
Bromoform	0.04	21	21	100		95	0.02	0.02	0.00
Bromomethane	0.06	21	21	100		95	0.03	0.03	0.00
Carbon disulfide	0.08	21	13	62		95	0.04	0.95	0.37
Carbon tetrachloride	0.04	21	0	0	0.11	95	0.04	0.15	0.04
Chlorobenzene	0.06	21	21	100		95	0.03	0.03	0.00
Chloroethane	0.06	21	16	76		95	0.03	0.09	0.03
Chloroethene	0.06	21	21	100		95	0.03	0.03	0.00
Chloroform	0.06	21	21	100		95	0.03	0.03	0.00
Chloromethane	0.06	21	0	0	0.48	95	0.35	0.68	0.10
cis-1,2-Dichloroethene	0.06	21	21	100		95	0.03	0.03	0.00
cis-1,3-Dichloro-1-propene	0.04	21	21	100		95	0.02	0.02	0.00
Cyclohexane	0.04	21	21	100		95	0.02	0.02	0.00
Dibromochloromethane	0.06	21	21	100		95	0.03	0.03	0.00
Dichlorodifluoromethane	0.04	21	0	0	0.44	95	0.34	0.56	0.06
Ethylbenzene	0.04	21	17	81		95	0.02	0.06	0.02
Hexachloro-1,3-butadiene	0.04	21	21	100		95	0.02	0.02	0.00
m & p- Xylene	0.10	21	16	76		95	0.05	0.19	0.07
Methylene chloride	0.08	21	12	57		95	0.04	0.12	0.03
n-Heptane	0.04	21	8	38	0.06	95	0.02	0.13	0.04
n-Hexane	0.04	21	6	29	0.10	95	0.02	0.47	0.10
o-Xylene	0.04	21	16	76		95	0.02	0.08	0.03
Propene	0.06	21	0	0	1.18	95	0.48	2.20	0.47
Styrene	0.04	21	21	100		95	0.02	0.02	0.00
Tetrachloroethene	0.06	21	21	100		95	0.03	0.03	0.02
Tetrahydrofuran	0.04	21	21	100		95	0.02	0.02	0.00
Toluene	0.06	21	3	14	0.21	95	0.03	0.51	0.13
trans-1,2-Dichloroethene	0.10	21	21	100		95	0.05	0.05	0.00
trans-1,3-Dichloro-1-propene	0.04	21	21	100		95	0.02	0.02	0.00
Trichloroethylene (TCE)	0.06	21	6	29	0.25	95	0.03	0.86	0.25
Trichlorofluoromethane	0.04	21	0	0	0.27	95	0.19	0.38	0.07

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	1/6	1/12	1/18	1/24	1/30	2/5	2/11	2/17	2/23
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.058	0.056	0.057	0.058	0.065	0.065	0.063	0.065	0.063
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethane	0	0	0	0	0	0	0	0	0
1,1-Dichloroethene	0	0	0	0	0	0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0	0	0	0	0	0
1,2,4-Trimethylbenzene	0	0	0.041	0	0	0	0	0	0
1,2-Dibromoethane	0	0	0	0	0	0	0	0	0
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0	0	0	0	0	0
1,3-Butadiene	0	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0	0	0	0	0	0
2-Butanone (MEK)	2.1	0.27	0.35	1.4	3.6	0.35	0.22	0.23	0.38
2-Hexanone	0	0	0	0	0	0	0	0	0
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0	0	0	0	0	0
4-Methyl-2-pentanone (MIBK)	0.11	0	0	0	0.19	0	0	0	0
Acetone	11	3	3.2	6.7	15	3.7	2.2	1.9	3.4
Benzene	0.081	0.2	0.4	0.2	0.21	0.12	0.2	0.16	0.1
Bromodichloromethane	0	0	0	0	0	0	0	0	0
Bromoform	0	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0	0
Carbon disulfide	0.062	0	0.79	0.82	0.95	0.84	0.2	0	0.059
Carbon tetrachloride	0.12	0.12	0.12	0.13	0.15	0.14	0.14	0.14	0.14
Chlorobenzene	0	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0	0	0	0	0
Chloroethene	0	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0	0
Chloromethane	0.4	0.38	0.35	0.36	0.42	0.44	0.43	0.44	0.43
cis-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Cyclohexane	0	0	0	0	0	0	0	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0	0
Dichlorodifluoromethane	0.37	0.38	0.38	0.38	0.43	0.44	0.42	0.42	0.43
Ethylbenzene	0	0	0.056	0	0	0	0	0	0
Hexachloro-1,3-butadiene	0	0	0	0	0	0	0	0	0
m & p- Xylene	0	0	0.18	0	0	0	0	0	0
Methylene chloride	0.044	0.071	0.1	0.045	0.046	0	0.051	0.044	0
n-Heptane	0.058	0.041	0.084	0.063	0	0	0	0	0
n-Hexane	0	0.11	0.18	0.056	0	0	0.043	0	0
o-Xylene	0	0	0.068	0	0	0	0	0	0
Propene	0.81	1.2	2.2	1.3	1.4	0.66	0.89	0.82	0.48
Styrene	0	0	0	0	0	0	0	0	0
Tetrachloroethene	0	0.053	0.045	0	0	0	0	0	0
Tetrahydrofuran	0	0	0	0	0	0	0	0	0
Toluene	0.094	0.23	0.51	0.23	0.18	0.042	0.1	0.089	0.047
trans-1,2-Dichloroethene	0	0	0	0	0	0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0	0	0	0	0	0
Trichloroethylene (TCE)	0.11	0	0.11	0.68	0.27	0	0.17	0.15	0
Trichlorofluoromethane	0.19	0.2	0.2	0.2	0.23	0.23	0.22	0.22	0.22

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2007
 Units: ppbv
 Analysis: Scan

Compounds	3/1	3/7	3/13	3/19	3/25	3/31	4/6	4/12	4/18
1,1,1-Trichloroethane	0	0	0	0		0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0		0	0	0	0
1,1,2-Trichloro-1,2,2-trifluoroethane	0.063	0.062	0.062	0.054		0.077	0.068	0.061	0.062
1,1,2-Trichloroethane	0	0	0	0		0	0	0	0
1,1-Dichloroethane	0	0	0	0		0	0	0	0
1,1-Dichloroethene	0	0	0	0		0	0	0	0
1,2,4-Trichlorobenzene	0	0	0	0		0	0	0	0
1,2,4-Trimethylbenzene	0.049	0	0	0		0	0	0	0
1,2-Dibromoethane	0	0	0	0		0	0	0	0
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0	0	0	0		0	0	0	0
1,2-Dichlorobenzene	0	0	0	0		0	0	0	0
1,2-Dichloroethane	0	0	0	0		0	0	0	0
1,2-Dichloropropane	0	0	0	0		0	0	0	0
1,3,5-Trimethylbenzene	0	0	0	0		0	0	0	0
1,3-Butadiene	0	0	0	0		0	0	0	0.13
1,3-Dichlorobenzene	0	0	0	0		0	0	0	0
1,4-Dichlorobenzene	0	0	0	0		0	0	0	0
1-Ethyl-4-methyl benzene	0	0	0	0		0	0	0	0
2-Butanone (MEK)	0.44	1.9	1.8	0.35		0.56	0.49	0.91	4.8
2-Hexanone	0	0	0	0		0	0	0	1.4
2-Methoxy-2-methyl propane (MTBE)	0	0	0	0		0	0	0	0
4-Methyl-2-pentanone (MIBK)	0	0.07	0.07	0		0	0	0	0.27
Acetone	4.4	9.4	11	1.2		4.6	4	7.1	12
Benzene	0.32	0.25	0.2	0.21		0.23	0.17	0.18	0.13
Bromodichloromethane	0	0	0	0		0	0	0	0
Bromoform	0	0	0	0		0	0	0	0
Bromomethane	0	0	0	0		0	0	0	0
Carbon disulfide	0	0	0	0		0	0.95	0	0.11
Carbon tetrachloride	0.14	0.14	0.14	0.041		0.066	0.078	0.065	0.063
Chlorobenzene	0	0	0	0		0	0	0	0
Chloroethane	0	0	0	0		0.085	0	0	0
Chloroethene	0	0	0	0		0	0	0	0
Chloroform	0	0	0	0		0	0	0	0
Chloromethane	0.42	0.4	0.42	0.38		0.68	0.6	0.6	0.61
cis-1,2-Dichloroethene	0	0	0	0		0	0	0	0
cis-1,3-Dichloro-1-propene	0	0	0	0		0	0	0	0
Cyclohexane	0	0	0	0		0	0	0	0
Dibromochloromethane	0	0	0	0		0	0	0	0
Dichlorodifluoromethane	0.42	0.39	0.41	0.34		0.56	0.49	0.5	0.51
Ethylbenzene	0.052	0	0	0		0.042	0	0	0
Hexachloro-1,3-butadiene	0	0	0	0		0	0	0	0
m & p- Xylene	0.15	0	0.081	0.081		0.12	0	0	0
Methylene chloride	0.086	0.051	0.12	0.051		0.12	0.066	0.11	0.084
n-Heptane	0.075	0.063	0.13	0		0.082	0	0.065	0.082
n-Hexane	0.12	0.11	0.13	0.072		0.16	0.066	0.077	0.47
o-Xylene	0.054	0	0	0		0.05	0	0	0
Propene	1.8	1.2	1.6	0.87		1.7	0.87	0.99	1.4
Styrene	0	0	0	0		0	0	0	0
Tetrachloroethene	0.042	0.046	0.045	0.047		0	0	0	0
Tetrahydrofuran	0	0	0	0		0	0	0	0
Toluene	0.44	0.23	0.37	0.21		0.3	0.091	0.18	0.11
trans-1,2-Dichloroethene	0	0	0	0		0	0	0	0
trans-1,3-Dichloro-1-propene	0	0	0	0		0	0	0	0
Trichloroethylene (TCE)	0.58	0.35	0.047	0.074		0.24	0.4	0.084	0.056
Trichlorofluoromethane	0.22	0.21	0.23	0.22		0.29	0.26	0.38	0.37

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Notes:
 MDL = Method Detection Limit
 Non-detects (ND) and data <0.005 are reported as zero
 Data <MDL = 1/2 the MDL for summary information
 Averages are not calculated if "%<MDL" is 50% or greater

Compound	MDL	NUM	#<MDL	%<MDL	AVG1	AVG2	MIN	MAX	STD	1/5
1,1,1-Trichloroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,1,2,2-Tetrachloroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	57	8	14	0.06		0.02	0.08	0.02	0.068
1,1,2-Trichloroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,1-Dichloroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,1-Dichloroethene	0.04	57	57	100			0.02	0.02	0.00	0.00
1,2,4-Trichlorobenzene	0.06	57	57	100			0.03	0.03	0.00	0.00
1,2,4-Trimethylbenzene	0.04	57	53	93			0.02	0.14	0.02	0.00
1,2-Dibromoethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,2-Dichlorobenzene	0.04	57	57	100			0.02	0.02	0.00	0.00
1,2-Dichloroethane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,2-Dichloropropane	0.04	57	57	100			0.02	0.02	0.00	0.00
1,3,5-Trimethylbenzene	0.04	57	56	98			0.02	0.08	0.01	0.00
1,3-Butadiene	0.04	57	51	89			0.02	0.23	0.04	0.00
1,3-Dichlorobenzene	0.04	57	57	100			0.02	0.02	0.00	0.00
1,4-Dichlorobenzene	0.04	57	57	100			0.02	0.02	0.00	0.00
1-Ethyl-4-methyl benzene	0.04	57	57	100			0.02	0.02	0.00	0.00
2-Butanone (MEK)	0.06	57	1	2	0.73		0.03	4.30	0.62	0.29
2-Hexanone	0.08	57	56	98			0.04	0.88	0.11	0.00
2-Methoxy-2-methyl propane (MTBE)	0.04	57	30	53			0.02	0.72	0.14	0.14
4-Methyl-2-pentanone (MIBK)	0.04	57	53	93			0.02	0.07	0.01	0.00
Acetone	0.06	57	0	0	7.46		2.00	25.00	4.68	3.8
Benzene	0.04	57	0	0	0.20		0.06	0.58	0.13	0.24
Bromodichloromethane	0.04	57	57	100			0.02	0.02	0.00	0.00
Bromoform	0.04	57	57	100			0.02	0.02	0.00	0.00
Bromomethane	0.04	57	54	95			0.02	0.16	0.02	0.00
Carbon disulfide	0.04	57	29	51			0.02	0.84	0.18	0.00
Carbon tetrachloride	0.06	57	7	12	0.08		0.03	0.16	0.03	0.048
Chlorobenzene	0.04	57	57	100			0.02	0.02	0.00	0.00
Chloroethane	0.04	57	47	82			0.02	0.12	0.02	0.00
Chloroethene	0.04	57	57	100			0.02	0.02	0.00	0.00
Chloroform	0.04	57	57	100			0.02	0.02	0.00	0.00
Chloromethane	0.04	57	0	0	0.45		0.21	0.56	0.09	0.47
cis-1,2-Dichloroethene	0.08	57	57	100			0.04	0.04	0.00	0.00
cis-1,3-Dichloro-1-propene	0.04	57	57	100			0.02	0.02	0.00	0.00
Cyclohexane	0.04	57	50	88			0.02	0.11	0.02	0.00
Dibromochloromethane	0.04	57	57	100			0.02	0.02	0.00	0.00
Dichlorodifluoromethane	0.04	57	0	0	0.44		0.28	0.54	0.07	0.43
Ethylbenzene	0.04	57	36	63			0.02	0.12	0.03	0.00
Hexachloro-1,3-butadiene	0.04	57	57	100			0.02	0.02	0.00	0.00
m & p- Xylene	0.08	57	22	39	0.13		0.04	0.60	0.11	0.1
Methylene chloride	0.04	57	10	18	0.08		0.02	0.17	0.04	0.058
n-Heptane	0.04	57	14	25	0.08		0.02	0.53	0.08	0.064
n-Hexane	0.04	57	15	26	0.10		0.02	0.37	0.09	0.13
o-Xylene	0.04	57	24	42	0.06		0.02	0.16	0.04	0.044
Propene	0.04	57	0	0	1.29		0.36	6.20	1.03	0.99
Styrene	0.04	57	57	100			0.02	0.02	0.00	0.00
Tetrachloroethene	0.04	57	44	77			0.02	0.14	0.02	0.00
Tetrahydrofuran	0.04	57	57	100			0.02	0.02	0.00	0.00
Toluene	0.04	57	0	0	0.30		0.07	0.91	0.20	0.3
trans-1,2-Dichloroethene	0.04	57	57	100			0.02	0.02	0.00	0.00
trans-1,3-Dichloro-1-propene	0.04	57	57	100			0.02	0.02	0.00	0.00
Trichloroethylene (TCE)	0.04	57	13	23	0.22		0.02	0.78	0.19	0.6
Trichlorofluoromethane	0.04	57	0	0	0.21		0.06	0.28	0.06	0.22

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	1/11	1/17	1/23	1/29	2/4	2/10	2/16	2/22	2/28	3/6
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.071	0.068	0.079	0.08	0.077	0.075	0.082	0.08	0.076	0.077
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.65	0.38	0.33	0.5	0.7	0.37	1.4	0.67	0.21	0.23
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.52	0.29	0.11	0.39	0.29	0.18	0.72	0.16	0.00	0.044
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	4	2.8	3.7	3.8	7.4	3.9	8.6	4	2.2	2
Benzene	0.52	0.43	0.27	0.52	0.31	0.34	0.58	0.54	0.2	0.19
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.16	0.00	0.00	0.00	0.069	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.15	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
Carbon tetrachloride	0.055	0.05	0.065	0.063	0.057	0.054	0.071	0.068	0.066	0.063
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.45	0.46	0.52	0.53	0.52	0.52	0.56	0.54	0.53	0.53
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.11	0.00	0.00	0.047	0.00	0.00	0.084	0.073	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.5	0.45	0.51	0.52	0.5	0.5	0.54	0.54	0.51	0.5
Ethylbenzene	0.11	0.072	0.00	0.099	0.054	0.047	0.12	0.085	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.33	0.22	0.11	0.31	0.16	0.14	0.35	0.26	0.00	0.00
Methylene chloride	0.17	0.093	0.1	0.088	0.079	0.06	0.14	0.11	0.00	0.042
n-Heptane	0.18	0.095	0.07	0.12	0.088	0.069	0.2	0.16	0.00	0.00
n-Hexane	0.37	0.18	0.14	0.2	0.19	0.15	0.33	0.32	0.043	0.045
o-Xylene	0.13	0.083	0.045	0.11	0.068	0.053	0.14	0.12	0.00	0.00
Propene	3.7	2	1.1	3.1	1.9	1.3	3.5	3.1	0.55	0.78
Styrene	0.033	0.02	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.00
Tetrachloroethene	0.084	0.00	0.00	0.00	0.00	0.053	0.074	0.064	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.9	0.53	0.28	0.67	0.44	0.38	0.91	0.67	0.11	0.12
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.3	0.12	0.00	0.32	0.24	0.16	0.45	0.22	0.18	0.00
Trichlorofluoromethane	0.23	0.23	0.26	0.26	0.26	0.25	0.28	0.27	0.25	0.25

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	3/12	3/18	3/24	3/30	4/5	4/11	4/17	4/23	4/29	5/5
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.081	0.078	0.075	0.075	0.076	0.076	0.078	0.079	0.078	0.072
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.71	0.71	0.34	1.1	0.46	0.72	0.49	0.91	0.58	0.97
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.33	0.00	0.066	0.22	0.046	0.27	0.077	0.16	0.14	0.2
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	6.2	5.3	2.8	9.1	5.2	9	5.1	9.8	6.9	11
Benzene	0.41	0.15	0.21	0.23	0.13	0.23	0.12	0.19	0.17	0.2
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.045	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.35	0.35	0.00	0.00	0.00	0.00	0.00	0.064	0.00	0.066
Carbon tetrachloride	0.063	0.058	0.068	0.07	0.075	0.074	0.059	0.063	0.084	0.084
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.065	0.00	0.00	0.00	0.00	0.061	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.54	0.54	0.52	0.51	0.56	0.55	0.52	0.56	0.51	0.51
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.054	0.00	0.00	0.00	0.00	0.044	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.51	0.5	0.48	0.49	0.49	0.5	0.48	0.49	0.47	0.47
Ethylbenzene	0.058	0.00	0.00	0.045	0.00	0.05	0.00	0.00	0.00	0.068
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.18	0.00	0.065	0.14	0.00	0.16	0.082	0.13	0.11	0.23
Methylene chloride	0.08	0.041	0.056	0.08	0.066	0.13	0.1	0.16	0.1	0.12
n-Heptane	0.11	0.00	0.048	0.00	0.00	0.12	0.00	0.12	0.075	0.11
n-Hexane	0.17	0.00	0.064	0.14	0.00	0.27	0.042	0.092	0.095	0.16
o-Xylene	0.076	0.00	0.00	0.058	0.00	0.068	0.00	0.064	0.047	0.091
Propene	2.2	0.52	0.91	1.6	0.39	1.9	0.54	1.2	0.98	1.1
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.46	0.067	0.18	0.37	0.089	0.38	0.12	0.25	0.23	0.47
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.24	0.00	0.00	0.22	0.069	0.47	0.00	0.11	0.00	0.58
Trichlorofluoromethane	0.26	0.25	0.24	0.25	0.25	0.26	0.24	0.25	0.24	0.24

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	5/11	5/17	5/23	5/29	6/4	6/10	6/16	6/22	6/28	7/4
1,1,1-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.076	0.078	0.074	0.075	0.069	0.072	0.064	0.066	0.066	0.065
1,1,2-Trichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2-tetrafluoroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	1.1	0.64	0.58	1.8	0.63	0.38	0.92	0.92	1.3	1.2
2-Hexanone	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.00	0.053	0.00	0.19	0.00	0.00	0.00	0.11	0.00	0.06
4-Methyl-2-pentanone (MIBK)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Acetone	11	8.3	7.6	22	8.6	7.1	13	9.4	12	15
Benzene	0.1	0.13	0.07	0.16	0.1	0.078	0.12	0.14	0.08	0.13
Bromodichloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.2	0.00	0.14	0.22	0.00	0.00	0.21	0.052	0.23	0.062
Carbon tetrachloride	0.087	0.086	0.085	0.083	0.079	0.079	0.071	0.073	0.071	0.071
Chlorobenzene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00	0.00	0.066	0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.54	0.51	0.49	0.52	0.45	0.49	0.42	0.47	0.47	0.47
cis-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.47	0.47	0.45	0.47	0.44	0.44	0.41	0.41	0.39	0.4
Ethylbenzene	0.00	0.00	0.00	0.059	0.00	0.00	0.051	0.056	0.12	0.078
Hexachloro-1,3-butadiene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.073	0.092	0.00	0.21	0.11	0.066	0.2	0.21	0.6	0.37
Methylene chloride	0.087	0.11	0.071	0.12	0.1	0.076	0.096	0.11	0.081	0.1
n-Heptane	0.00	0.071	0.00	0.12	0.099	0.046	0.089	0.11	0.53	0.15
n-Hexane	0.00	0.079	0.00	0.00	0.041	0.00	0.1	0.14	0.21	0.12
o-Xylene	0.00	0.043	0.00	0.094	0.052	0.00	0.07	0.087	0.16	0.13
Propene	0.41	0.71	0.4	1.4	0.65	0.37	0.76	0.85	0.85	0.81
Styrene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.025
Tetrachloroethene	0.00	0.04	0.00	0.00	0.00	0.00	0.14	0.055	0.00	0.00
Tetrahydrofuran	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.17	0.27	0.099	0.38	0.17	0.11	0.31	0.36	0.26	0.36
trans-1,2-Dichloroethene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.055	0.1	0.54	0.22	0.00	0.00	0.73	0.26	0.16	0.44
Trichlorofluoromethane	0.24	0.24	0.23	0.25	0.23	0.22	0.2	0.21	0.2	0.21

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	7/10	7/16	7/22	7/28	8/3	8/9	8/15	8/21	8/27	9/2
1,1,1-Trichloroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.065	0.072			0.07	0.067	0.073	0.071	0.063	0.062
1,1,2-Trichloroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dibromoethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00	0.00			0.00	0.16	0.00	0.00	0.00	0.00
1,3-Dichlorobenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	0.91	1.3			1.1	4.3	1.2	0.56	0.47	0.00
2-Hexanone	0.00	0.00			0.00	0.88	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.00	0.049			0.00	0.00	0.00	0.00	0.00	0.00
4-Methyl-2-pentanone (MIBK)	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Acetone	11	13			15	25	13	7.5	6.6	3.8
Benzene	0.11	0.13			0.12	0.15	0.1	0.078	0.085	0.081
Bromodichloromethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.05	0.00			0.84	0.84	0.31	0.00	0.048	0.052
Carbon tetrachloride	0.068	0.07			0.078	0.078	0.082	0.079	0.073	0.089
Chlorobenzene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00	0.00			0.00	0.00	0.047	0.045	0.00	0.00
Chloroethene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.43	0.47			0.48	0.42	0.46	0.4	0.41	0.39
cis-1,2-Dichloroethene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.38	0.4			0.42	0.43	0.46	0.41	0.42	0.42
Ethylbenzene	0.00	0.058			0.00	0.048	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.16	0.24			0.14	0.14	0.091	0.071	0.063	0.00
Methylene chloride	0.1	0.098			0.075	0.1	0.071	0.058	0.065	0.00
n-Heptane	0.087	0.13			0.14	0.13	0.08	0.057	0.06	0.07
n-Hexane	0.078	0.12			0.084	0.12	0.088	0.064	0.075	0.00
o-Xylene	0.068	0.1			0.085	0.098	0.05	0.00	0.00	0.00
Propene	0.59	0.78			0.74	1.9	0.8	0.52	0.51	0.36
Styrene	0.00	0.022			0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Tetrahydrofuran	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.22	0.34			0.29	0.32	0.21	0.15	0.13	0.098
trans-1,2-Dichloroethene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00	0.00			0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.00	0.3			0.33	0.28	0.45	0.39	0.069	0.057
Trichlorofluoromethane	0.19	0.2			0.22	0.22	0.24	0.22	0.24	0.21

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2006
 Units: ppbv
 Analysis: Scan

Compound	9/8	9/14	9/20	9/26	10/2	10/8	10/14	10/20	10/26	11/1
1,1,1-Trichloroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,1,2,2-Tetrachloroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.064		0.064		0.00	0.00	0.00	0.00	0.00	0.00
1,1,2-Trichloroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,1-Dichloroethene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trichlorobenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2,4-Trimethylbenzene	0.00		0.00		0.00	0.00	0.042	0.00	0.00	0.00
1,2-Dibromoethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichlorobenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloroethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,2-Dichloropropane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,3,5-Trimethylbenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,3-Butadiene	0.00		0.15		0.11	0.23	0.00	0.00	0.059	0.00
1,3-Dichlorobenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1,4-Dichlorobenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
1-Ethyl-4-methyl benzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
2-Butanone (MEK)	1.9		0.57		0.77	0.44	0.23	0.36	0.16	0.51
2-Hexanone	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
2-Methoxy-2-methyl propane (MTBE)	0.11		0.00		0.00	0.00	0.00	0.00	0.00	0.00
4-Methyl-2-pentanone (MIBK)	0.00		0.00		0.00	0.067	0.00	0.043	0.00	0.00
Acetone	16		5.8		4.7	8.7	4.4	5.7	3.6	7.2
Benzene	0.22		0.098		0.15	0.19	0.12	0.12	0.096	0.18
Bromodichloromethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Bromoform	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Bromomethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Carbon disulfide	0.49		0.27		0.00	0.19	0.00	0.00	0.00	0.33
Carbon tetrachloride	0.069		0.07		0.15	0.11	0.09	0.097	0.092	0.093
Chlorobenzene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Chloroethane	0.00		0.047		0.00	0.00	0.00	0.00	0.00	0.00
Chloroethene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Chloroform	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Chloromethane	0.38		0.37		0.29	0.27	0.21	0.27	0.24	0.23
cis-1,2-Dichloroethene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
cis-1,3-Dichloro-1-propene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Cyclohexane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Dibromochloromethane	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Dichlorodifluoromethane	0.48		0.39		0.35	0.33	0.28	0.28	0.28	0.28
Ethylbenzene	0.071		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Hexachloro-1,3-butadiene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
m & p- Xylene	0.22		0.07		0.1	0.12	0.00	0.00	0.00	0.12
Methylene chloride	0.14		0.067		0.00	0.00	0.00	0.00	0.00	0.00
n-Heptane	0.22		0.058		0.00	0.05	0.00	0.058	0.041	0.00
n-Hexane	0.28		0.067		0.00	0.00	0.00	0.00	0.00	0.00
o-Xylene	0.09		0.00		0.051	0.055	0.00	0.00	0.00	0.045
Propene	1.7		0.73		1.2	1.7	1.1	0.77	0.72	1.1
Styrene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Tetrachloroethene	0.066		0.00		0.00	0.00	0.044	0.00	0.00	0.00
Tetrahydrofuran	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Toluene	0.64		0.16		0.12	0.37	0.18	0.2	0.12	0.34
trans-1,2-Dichloroethene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
trans-1,3-Dichloro-1-propene	0.00		0.00		0.00	0.00	0.00	0.00	0.00	0.00
Trichloroethylene (TCE)	0.78		0.09		0.3	0.18	0.42	0.18	0.19	0.19
Trichlorofluoromethane	0.21		0.2		0.1	0.097	0.057	0.073	0.061	0.06

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Notes:
 MDL = Method Detection Limit
 ND = Compound not detected
 NDs, zeros and data <MDL = 1/2 the MDL for summary information
 Averages are not calculated if % <MDL is 50% or greater

Compound	MDL	NUM	#<MDL	%<MDL	AVG1	AVG2	MIN	MAX	STD
1,1,1-Trichloroethane	0.04	44	44	100			0.02	0.02	0.00
1,1,2,2-Tetrachloroethane	0.14	44	44	100			0.07	0.07	0.00
1,1,2-Trichloro-1,2,2-trifluoroethane	0.04	44	0	0	0.06		0.05	0.09	0.01
1,1,2-Trichloroethane	0.04	44	44	100			0.02	0.02	0.00
1,1-Dichloroethane	0.04	44	44	100			0.02	0.02	0.00
1,1-Dichloroethene	0.04	44	44	100			0.02	0.02	0.00
1,2,4-Trichlorobenzene	0.2	44	44	100			0.10	0.10	0.00
1,2,4-Trimethylbenzene	0.14	44	31	70			0.07	0.16	0.02
1,2-Dibromoethane	0.04	44	44	100			0.02	0.02	0.00
1,2-Dichloro-1,1,2,2,tetrafluoroethane	0.04	44	44	100			0.02	0.02	0.00
1,2-Dichlorobenzene	0.16	44	44	100			0.08	0.08	0.00
1,2-Dichloroethane	0.04	44	44	100			0.02	0.02	0.00
1,2-Dichloropropane	0.04	44	44	100			0.02	0.02	0.00
1,3,5-Trimethylbenzene	0.14	44	42	95			0.07	0.07	0.00
1,3-Butadiene	0.04	44	42	95			0.02	0.21	0.03
1,3-Dichlorobenzene	0.14	44	44	100			0.07	0.07	0.00
1,4-Dichlorobenzene	0.14	44	44	100			0.07	0.07	0.00
1-Ethyl-4-methyl benzene	0.16	44	43	98			0.08	0.08	0.00
2-Butanone (MEK)	0.16	44	0	0	0.99		0.08	4.40	0.93
2-Hexanone	0.38	36	35	97			0.19	0.19	0.00
2-Methoxy-2-methyl propane (MTBE)	0.04	44	4	9	0.27		0.02	1.10	0.22
4-Methyl-2-pentanone (MIBK)	0.88	44	42	95			0.44	0.44	0.00
Acetone	0.14	44	0	0	7.05		2.00	28.00	5.34
Benzene	0.04	44	0	0	0.23		0.09	0.58	0.13
Bromodichloromethane	0.04	44	44	100			0.02	0.02	0.00
Bromoform	0.02	44	44	100			0.01	0.01	0.00
Bromomethane	0.04	44	42	95			0.02	0.07	0.01
Carbon disulfide	0.04	44	27	61			0.02	0.36	0.06
Carbon tetrachloride	0.04	44	0	0	0.09		0.04	0.17	0.04
Chlorobenzene	0.04	44	44	100			0.02	0.02	0.00
Chloroethane	0.04	44	41	93			0.02	0.07	0.01
Chloroethene	0.04	44	44	100			0.02	0.02	0.00
Chloroform	0.04	44	44	100			0.02	0.02	0.00
Chloromethane	0.04	44	0	0	0.47		0.40	0.62	0.05
cis-1,2-Dichloroethene	0.04	44	44	100			0.02	0.02	0.00
cis-1,3-Dichloro-1-propene	0.02	44	44	100			0.01	0.01	0.00
Cyclohexane	0.04	44	35	80			0.02	0.07	0.01
Dibromochloromethane	0.04	44	44	100			0.02	0.02	0.00
Dichlorodifluoromethane	0.04	44	0	0	0.43		0.37	0.52	0.04
Ethylbenzene	0.04	44	24	55			0.02	0.15	0.03
Hexachloro-1,3-butadiene	0.12	44	44	100			0.06	0.06	0.00
m & p- Xylene	0.06	44	8	18	0.15		0.03	0.51	0.10
Methylene chloride	0.04	44	11	25	0.06		0.02	0.20	0.04
n-Heptane	0.04	44	11	25	0.07		0.02	0.21	0.05
n-Hexane	0.04	44	6	14	0.14		0.02	0.49	0.12
o-Xylene	0.04	44	15	34	0.07		0.02	0.16	0.04
Propene	0.16	44	1	2	1.13		0.08	3.60	0.84
Styrene	0.02	44	42	95			0.01	0.02	0.00
Tetrachloroethene	0.04	44	33	75			0.02	0.15	0.03
Tetrahydrofuran	0.04	44	44	100			0.02	0.02	0.00
Toluene	0.04	44	1	2	0.37		0.02	1.20	0.25
trans-1,2-Dichloroethene	0.04	44	44	100			0.02	0.02	0.00
trans-1,3-Dichloro-1-propene	0.02	44	44	100			0.01	0.01	0.00
Trichloroethene (TCE)	0.04	44	8	18	0.26		0.02	0.70	0.23
Trichlorofluoromethane	0.04	44	0	0	0.22		0.18	0.26	0.02

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	1/4	1/10	1/16	1/22	1/28	2/3	2/9	2/15	2/21
1,1,1-Trichloroethane	ND	ND				ND	ND		ND
1,1,2,2-Tetrachloroethane	ND	ND				ND	ND		ND
1,1,2-Trichloro-1,2,2-trifluoroethane	0.075	0.079				0.065	0.055		0.07
1,1,2-Trichloroethane	ND	ND				ND	ND		ND
1,1-Dichloroethane	ND	ND				ND	ND		ND
1,1-Dichloroethene	ND	ND				ND	ND		ND
1,2,4-Trichlorobenzene	ND	ND				ND	ND		ND
1,2,4-Trimethylbenzene	0.07	ND				0.084	0.16		0.05
1,2-Dibromoethane	ND	ND				ND	ND		ND
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND	ND				ND	ND		ND
1,2-Dichlorobenzene	ND	ND				ND	ND		ND
1,2-Dichloroethane	ND	ND				ND	ND		ND
1,2-Dichloropropane	ND	ND				ND	ND		ND
1,3,5-Trimethylbenzene	0.08	ND				ND	0.085		ND
1,3-Butadiene	ND	ND				ND	ND		ND
1,3-Dichlorobenzene	ND	ND				ND	ND		ND
1,4-Dichlorobenzene	ND	ND				ND	ND		ND
1-Ethyl-4-methyl benzene	ND	ND				ND	0.049		ND
2-Butanone (MEK)	0.13	0.28				0.52	0.35		2
2-Hexanone	ND	ND				ND	ND		ND
2-Methoxy-2-methyl propane (MTBE)	0.45	0.069				0.35	1.1		0.18
4-Methyl-2-pentanone (MIBK)	ND	ND				ND	ND		ND
Acetone	4.2	2				4.6	4.4		5.1
Benzene	0.41	0.2				0.57	0.58		0.26
Bromodichloromethane	ND	ND				ND	ND		ND
Bromoform	ND	ND				ND	ND		ND
Bromomethane	ND	ND				ND	ND		ND
Carbon disulfide	ND	ND				ND	0.046		0.11
Carbon tetrachloride	0.078	0.067				0.078	0.061		0.11
Chlorobenzene	ND	ND				ND	ND		ND
Chloroethane	0.053	ND				ND	ND		ND
Chloroethene	ND	ND				ND	ND		ND
Chloroform	ND	ND				ND	ND		ND
Chloromethane	0.56	0.6				0.47	0.43		0.5
cis-1,2-Dichloroethene	ND	ND				ND	ND		ND
cis-1,3-Dichloro-1-propene	ND	ND				ND	ND		ND
Cyclohexane	0.043	ND				0.046	0.067		ND
Dibromochloromethane	ND	ND				ND	ND		ND
Dichlorodifluoromethane	0.51	0.44				0.46	0.4		0.48
Ethylbenzene	0.063	ND				0.088	0.15		0.048
Hexachloro-1,3-butadiene	ND	ND				ND	ND		ND
m & p- Xylene	0.21	ND				0.32	0.51		0.14
Methylene chloride	0.087	0.074				0.15	0.15		0.084
n-Heptane	0.19	0.048				0.18	0.21		0.077
n-Hexane	0.23	0.12				0.23	0.38		0.12
o-Xylene	0.073	ND				0.1	0.16		ND
Propene	2.1	1.2				2.6	2.9		0.46
Styrene	ND	ND				ND	ND		ND
Tetrachloroethene	0.056	ND				0.056	0.15		ND
Tetrahydrofuran	ND	ND				ND	ND		ND
Toluene	0.54	0.16				0.79	1.2		1
trans-1,2-Dichloroethene	ND	ND				ND	ND		ND
trans-1,3-Dichloro-1-propene	ND	ND				ND	ND		ND
Trichloroethene (TCE)	0.2	0.065				0.16	0.7		ND
Trichlorofluoromethane	0.25	0.22				0.23	0.21		0.24

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	2/27	3/5	3/11	3/17	3/23	3/29	4/4	4/10	4/16
1,1,1-Trichloroethane		ND	ND	ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane		ND	ND	ND	ND	ND	ND		
1,1,2-Trichloro-1,2,2-trifluoroethane		0.065	0.072	0.069	0.057	0.055	0.058		
1,1,2-Trichloroethane		ND	ND	ND	ND	ND	ND		
1,1-Dichloroethane		ND	ND	ND	ND	ND	ND		
1,1-Dichloroethene		ND	ND	ND	ND	ND	ND		
1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND		
1,2,4-Trimethylbenzene		0.045	ND	0.043	0.055	ND	ND		
1,2-Dibromoethane		ND	ND	ND	ND	ND	ND		
1,2-Dichloro-1,1,2,2,tetrafluoroethane		ND	ND	ND	ND	ND	ND		
1,2-Dichlorobenzene		ND	ND	ND	ND	ND	ND		
1,2-Dichloroethane		ND	ND	ND	ND	ND	ND		
1,2-Dichloropropane		ND	ND	ND	ND	ND	ND		
1,3,5-Trimethylbenzene		ND	ND	ND	ND	ND	ND		
1,3-Butadiene		ND	ND	ND	ND	ND	ND		
1,3-Dichlorobenzene		ND	ND	ND	ND	ND	ND		
1,4-Dichlorobenzene		ND	ND	ND	ND	ND	ND		
1-Ethyl-4-methyl benzene		ND	ND	ND	ND	ND	ND		
2-Butanone (MEK)		0.4	0.38	2	2.1	1.8	0.34		
2-Hexanone		ND	ND	0.34	ND	ND	ND		
2-Methoxy-2-methyl propane (MTBE)		0.16	0.13	0.13	0.4	0.067	ND		
4-Methyl-2-pentanone (MIBK)		ND	ND	ND	0.15	0.17	ND		
Acetone		2.2	2.2	8.8	5.2	5.1	2.6		
Benzene		0.29	0.24	0.27	0.31	0.18	0.089		
Bromodichloromethane		ND	ND	ND	ND	ND	ND		
Bromoform		ND	ND	ND	ND	ND	ND		
Bromomethane		ND	0.063	ND	ND	ND	ND		
Carbon disulfide		ND	ND	0.048	ND	ND	ND		
Carbon tetrachloride		0.1	0.09	0.098	0.17	0.16	0.043		
Chlorobenzene		ND	ND	ND	ND	ND	ND		
Chloroethane		ND	ND	ND	ND	ND	ND		
Chloroethene		ND	ND	ND	ND	ND	ND		
Chloroform		ND	ND	ND	ND	ND	ND		
Chloromethane		0.48	0.51	0.49	0.42	0.45	0.46		
cis-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND		
cis-1,3-Dichloro-1-propene		ND	ND	ND	ND	ND	ND		
Cyclohexane		ND	ND	ND	0.05	ND	ND		
Dibromochloromethane		ND	ND	ND	ND	ND	ND		
Dichlorodifluoromethane		0.46	0.49	0.5	0.43	0.43	0.43		
Ethylbenzene		0.04	ND	ND	0.056	ND	ND		
Hexachloro-1,3-butadiene		ND	ND	ND	ND	ND	ND		
m & p- Xylene		0.13	ND	0.13	0.16	ND	ND		
Methylene chloride		0.058	ND	ND	0.099	0.044	ND		
n-Heptane		0.095	0.078	0.069	0.065	0.046	ND		
n-Hexane		0.11	0.098	0.1	0.16	0.049	ND		
o-Xylene		ND	ND	ND	0.061	ND	ND		
Propene		0.63	ND	1.1	1.8	1.1	0.14		
Styrene		ND	ND	ND	ND	ND	ND		
Tetrachloroethene		ND	ND	0.056	ND	ND	ND		
Tetrahydrofuran		ND	ND	ND	ND	ND	ND		
Toluene		0.33	0.25	0.3	0.39	0.12	ND		
trans-1,2-Dichloroethene		ND	ND	ND	ND	ND	ND		
trans-1,3-Dichloro-1-propene		ND	ND	ND	ND	ND	ND		
Trichloroethene (TCE)		0.62	0.12	0.096	0.077	ND	0.078		
Trichlorofluoromethane		0.23	0.24	0.24	0.22	0.21	0.2		

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	4/22	4/28	5/4	5/10	5/16	5/22	5/28	6/3	6/9
1,1,1-Trichloroethane		ND							
1,1,2,2-Tetrachloroethane		ND							
1,1,2-Trichloro-1,2,2-trifluoroethane		0.064	0.057	0.058	0.065	0.052	0.049	0.054	0.057
1,1,2-Trichloroethane		ND							
1,1-Dichloroethane		ND							
1,1-Dichloroethene		ND							
1,2,4-Trichlorobenzene		ND							
1,2,4-Trimethylbenzene		ND	0.052	0.046	0.046	ND	0.05	ND	ND
1,2-Dibromoethane		ND							
1,2-Dichloro-1,1,2,2,tetrafluoroethane		ND							
1,2-Dichlorobenzene		ND							
1,2-Dichloroethane		ND							
1,2-Dichloropropane		ND							
1,3,5-Trimethylbenzene		ND							
1,3-Butadiene		ND							
1,3-Dichlorobenzene		ND							
1,4-Dichlorobenzene		ND							
1-Ethyl-4-methyl benzene		ND							
2-Butanone (MEK)		0.5	0.27	0.96	0.66	0.6	0.93	4.4	2.8
2-Hexanone		ND	ND	ND	ND	ND	ND		
2-Methoxy-2-methyl propane (MTBE)		ND	0.21	0.26	0.1	0.079	0.35	0.17	0.44
4-Methyl-2-pentanone (MIBK)		ND							
Acetone		4.9	4.2	10	7.9	6.8	7.6	28	24
Benzene		0.11	0.16	0.26	0.19	0.13	0.16	0.1	0.17
Bromodichloromethane		ND							
Bromoform		ND							
Bromomethane		ND							
Carbon disulfide		ND	ND	0.04	ND	ND	ND	0.042	0.12
Carbon tetrachloride		0.041	0.041	0.11	0.11	0.12	0.068	0.056	0.059
Chlorobenzene		ND							
Chloroethane		ND	ND	ND	ND	ND	0.05	ND	ND
Chloroethene		ND							
Chloroform		ND							
Chloromethane		0.51	0.43	0.46	0.48	0.42	0.43	0.43	0.47
cis-1,2-Dichloroethene		ND							
cis-1,3-Dichloro-1-propene		ND							
Cyclohexane		ND							
Dibromochloromethane		ND							
Dichlorodifluoromethane		0.4	0.41	0.42	0.44	0.37	0.38	0.4	0.41
Ethylbenzene		ND	0.05						
Hexachloro-1,3-butadiene		ND							
m & p- Xylene		ND	0.13	0.12	0.12	ND	0.13	0.1	0.18
Methylene chloride		ND	0.044	0.11	ND	ND	ND	0.069	0.069
n-Heptane		ND	0.074	0.12	ND	ND	ND	0.046	0.067
n-Hexane		0.042	0.083	0.094	0.045	0.059	0.12	ND	ND
o-Xylene		ND	0.064	ND	0.07	ND	0.061	0.05	0.096
Propene		0.24	0.51	0.73	0.46	0.34	0.77	0.88	1.6
Styrene		ND							
Tetrachloroethene		ND	0.047						
Tetrahydrofuran		ND							
Toluene		0.15	0.28	0.25	0.28	0.12	0.3	0.22	0.39
trans-1,2-Dichloroethene		ND							
trans-1,3-Dichloro-1-propene		ND							
Trichloroethene (TCE)		ND	0.14	0.071	0.4	0.24	0.55	0.048	0.66
Trichlorofluoromethane			0.2	0.2	0.21	0.22	0.18	0.19	0.2

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	6/15	6/21	6/27	7/3	7/9	7/15	7/21	7/27	8/2
1,1,1-Trichloroethane	ND								
1,1,2,2-Tetrachloroethane	ND								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.069	0.057	0.055	0.056	0.054	0.077	0.056	0.058	0.058
1,1,2-Trichloroethane	ND								
1,1-Dichloroethane	ND								
1,1-Dichloroethene	ND								
1,2,4-Trichlorobenzene	ND								
1,2,4-Trimethylbenzene	ND								
1,2-Dibromoethane	ND								
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND								
1,2-Dichlorobenzene	ND								
1,2-Dichloroethane	ND								
1,2-Dichloropropane	ND								
1,3,5-Trimethylbenzene	ND								
1,3-Butadiene	ND	ND	0.14	ND	ND	ND	ND	0.21	ND
1,3-Dichlorobenzene	ND								
1,4-Dichlorobenzene	ND								
1-Ethyl-4-methyl benzene	ND								
2-Butanone (MEK)	1.2	0.66	3.5	0.76	0.53	0.58	1.4	3	1.3
2-Hexanone			ND			ND		ND	
2-Methoxy-2-methyl propane (MTBE)	0.12	0.22	0.27	0.24	0.2	0.31	0.35	0.23	0.21
4-Methyl-2-pentanone (MIBK)	ND								
Acetone	6	3.8	18	4.5	4.7	4.4	9.9	16	6.3
Benzene	0.13	0.17	0.12	0.15	0.17	0.2	0.18	0.15	0.17
Bromodichloromethane	ND								
Bromoform	ND								
Bromomethane	ND	ND	ND	0.065	ND	ND	ND	ND	ND
Carbon disulfide	0.1	0.048	0.071	ND	ND	0.36	0.18	0.07	0.069
Carbon tetrachloride	0.12	0.12	0.09	0.13	0.12	0.11	0.078	0.087	0.12
Chlorobenzene	ND								
Chloroethane	ND	0.072							
Chloroethene	ND								
Chloroform	ND								
Chloromethane	0.49	0.4	0.42	0.43	0.41	0.54	0.41	0.43	0.46
cis-1,2-Dichloroethene	ND								
cis-1,3-Dichloro-1-propene	ND								
Cyclohexane	ND								
Dibromochloromethane	ND								
Dichlorodifluoromethane	0.43	0.38	0.38	0.39	0.37	0.4	0.4	0.39	0.38
Ethylbenzene	ND	ND	0.041	ND	ND	0.041	0.055	0.042	ND
Hexachloro-1,3-butadiene	ND								
m & p- Xylene	0.11	0.12	0.14	0.11	0.11	0.14	0.18	0.13	0.12
Methylene chloride	ND	0.043	0.057	ND	ND	0.053	0.052	0.047	0.046
n-Heptane	0.05	0.074	0.06	ND	ND	0.062	0.046	0.056	0.059
n-Hexane	ND	0.13	ND	0.13	0.13	0.15	0.18	0.1	ND
o-Xylene	0.077	0.067	0.08	0.069	0.064	0.085	0.099	0.096	0.075
Propene	0.42	0.54	1.4	0.51	0.47	0.77	0.78	1.9	0.55
Styrene	ND								
Tetrachloroethene	ND	0.052	ND						
Tetrahydrofuran	ND								
Toluene	0.17	0.3	0.28	0.25	0.24	0.2	0.43	0.38	0.34
trans-1,2-Dichloroethene	ND								
trans-1,3-Dichloro-1-propene	ND								
Trichloroethene (TCE)	0.64	0.16	0.074	ND	0.54	0.054	0.66	0.29	0.14
Trichlorofluoromethane	0.22	0.2	0.19	0.2	0.18	0.22	0.2	0.2	0.2

Pennsylvania DEP Air Sampling Results

Type: VOC
 Lab: DEP
 Site: Trappe
 Year: 2005
 Units: ppbv
 Analysis: Scan

Compound	8/8	8/14	8/20	8/26	9/1	9/7	9/13	9/19	9/25
1,1,1-Trichloroethane	ND	ND		ND	ND	ND	ND		
1,1,2,2-Tetrachloroethane	ND	ND		ND	ND	ND	ND		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.055	0.063		0.079	0.086	0.077	0.083		
1,1,2-Trichloroethane	ND	ND		ND	ND	ND	ND		
1,1-Dichloroethane	ND	ND		ND	ND	ND	ND		
1,1-Dichloroethene	ND	ND		ND	ND	ND	ND		
1,2,4-Trichlorobenzene	ND	ND		ND	ND	ND	ND		
1,2,4-Trimethylbenzene	ND	ND		ND	ND	0.16	ND		
1,2-Dibromoethane	ND	ND		ND	ND	ND	ND		
1,2-Dichloro-1,1,2,2,tetrafluoroethane	ND	ND		ND	ND	ND	ND		
1,2-Dichlorobenzene	ND	ND		ND	ND	ND	ND		
1,2-Dichloroethane	ND	ND		ND	ND	ND	ND		
1,2-Dichloropropane	ND	ND		ND	ND	ND	ND		
1,3,5-Trimethylbenzene	ND	ND		ND	ND	ND	ND		
1,3-Butadiene	ND	ND		ND	ND	ND	ND		
1,3-Dichlorobenzene	ND	ND		ND	ND	ND	ND		
1,4-Dichlorobenzene	ND	ND		ND	ND	ND	ND		
1-Ethyl-4-methyl benzene	ND	ND		ND	ND	ND	ND		
2-Butanone (MEK)	0.78	0.74		0.48	0.28	0.85	0.99		
2-Hexanone	ND	ND		ND	ND	ND	ND		
2-Methoxy-2-methyl propane (MTBE)	0.37	0.22		0.47	0.2	0.58	0.65		
4-Methyl-2-pentanone (MIBK)	ND	ND		ND	ND	ND	ND		
Acetone	7.9	5.2		9.2	3.5	8	12		
Benzene	0.14	0.11		0.2	0.15	0.26	0.27		
Bromodichloromethane	ND	ND		ND	ND	ND	ND		
Bromoform	ND	ND		ND	ND	ND	ND		
Bromomethane	ND	ND		ND	ND	ND	ND		
Carbon disulfide	0.072	ND		0.08	0.082	ND	0.055		
Carbon tetrachloride	0.09	0.083		0.058	0.065	0.052	0.053		
Chlorobenzene	ND	ND		ND	ND	ND	ND		
Chloroethane	ND	ND		ND	ND	ND	ND		
Chloroethene	ND	ND		ND	ND	ND	ND		
Chloroform	ND	ND		ND	ND	ND	ND		
Chloromethane	0.4	0.48		0.51	0.62	0.48	0.54		
cis-1,2-Dichloroethene	ND	ND		ND	ND	ND	ND		
cis-1,3-Dichloro-1-propene	ND	ND		ND	ND	ND	ND		
Cyclohexane	ND	ND		ND	ND	0.042	ND		
Dibromochloromethane	ND	ND		ND	ND	ND	ND		
Dichlorodifluoromethane	0.38	0.39		0.49	0.48	0.51	0.52		
Ethylbenzene	0.047	ND		0.062	0.04	0.088	0.12		
Hexachloro-1,3-butadiene	ND	ND		ND	ND	ND	ND		
m & p- Xylene	0.16	0.094		0.21	0.14	0.28	0.35		
Methylene chloride	0.071	0.041		0.11	0.046	0.094	0.1		
n-Heptane	0.082	0.064		0.13	0.097	0.14	0.13		
n-Hexane	0.18	0.11		0.25	0.081	0.39	0.45		
o-Xylene	0.082	0.072		0.11	0.085	0.12	0.16		
Propene	0.72	0.39		1.2	0.58	1.8	1.8		
Styrene	ND	ND		ND	ND	ND	ND		
Tetrachloroethene	ND	ND		ND	ND	0.056	0.078		
Tetrahydrofuran	ND	ND		ND	ND	ND	ND		
Toluene	0.33	0.19		0.43	0.26	0.62	0.72		
trans-1,2-Dichloroethene	ND	ND		ND	ND	ND	ND		
trans-1,3-Dichloro-1-propene	ND	ND		ND	ND	ND	ND		
Trichloroethene (TCE)	0.63	ND		0.16	0.54	0.59	0.55		
Trichlorofluoromethane	0.19	0.2		0.25	0.24	0.26	0.26		



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Note: These same sub-sections are repeated for each source!

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Section F. Emission Restriction Summary

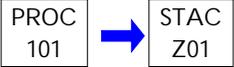
Section G. Miscellaneous



SECTION A. Site Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
101	VAPOR DEGREASER	6.400 Lbs/HR	SOLVENT
Z01	UNSPECIFIED NAME		

PERMIT MAPS





SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.512(c)(4)]

Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#003 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,



SECTION B. General Title V Requirements

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

(1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;

(3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;

(4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

(1) Enforcement action

(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.



SECTION B. General Title V Requirements

#008 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

(a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.

(b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

(a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.

(b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:

(1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.

(2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.

(3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.

(4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.

(d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#011 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

**SECTION B. General Title V Requirements**

#012 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

#013 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

(a) The permittee may make minor operating permit modifications (as defined in 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(b) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to an operational flexibility change authorized by 25 Pa. Code § 127.462.

#014 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

(a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code § 127.450(a), according to procedures specified in § 127.450. Administrative amendments are not authorized for any amendment precluded by the Clean Air Act or the regulations thereunder from being processed as an administrative amendment.

(b) Upon taking final action granting a request for an administrative permit amendment in accordance with § 127.450(c), the Department will allow coverage under 25 Pa. Code § 127.516 (relating to permit shield) for administrative permit amendments which meet the relevant requirements of 25 Pa. Code Article III, unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]

Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

(a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).

(b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.

(c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.

(d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).

SECTION B. General Title V Requirements

(e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.

(f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

(a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or (2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

(2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.

(3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less

SECTION B. General Title V Requirements

than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.

(4) Space heaters which heat by direct heat transfer.

(5) Laboratory equipment used exclusively for chemical or physical analysis.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

(1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.

(2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) applies to de minimis emission increases and the installation of minor sources made pursuant to this permit condition.

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#018 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).



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#019 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter,
or otherwise notified)

(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Air Enforcement Branch (3AP12)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:



SECTION B. General Title V Requirements

(1) The date, place (as defined in the permit) and time of sampling or measurements.

(2) The dates the analyses were performed.

(3) The company or entity that performed the analyses.

(4) The analytical techniques or methods used.

(5) The results of the analyses.

(6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

(a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.

(c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.

(d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#024 [25 Pa. Code § 127.513]

Compliance Certification

(a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This

SECTION B. General Title V Requirements

certification shall include:

- (1) The identification of each term or condition of the permit that is the basis of the certification.
- (2) The compliance status.
- (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
- (4) Whether compliance was continuous or intermittent.

(b) The compliance certification should be postmarked or hand-delivered within thirty days of each anniversary date of the date of issuance or, of the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

#025 [25 Pa. Code § 127.3]

Operational Flexibility

(a) The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit amendments)
- (7) Subchapter H (relating to general plan approvals and operating permits)

(b) Unless precluded by the Clean Air Act or the regulations adopted thereunder, the permit shield authorized under 25 Pa. Code § 127.516 shall extend to operational flexibility changes made at this Title V facility pursuant to this permit condition and other applicable operational flexibility terms and conditions of this permit.

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,

SECTION B. General Title V Requirements

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

#027 [25 Pa. Code § 127.512(e)]

Approved Economic Incentives and Emission Trading Programs

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]

Permit Shield

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.



SECTION B. General Title V Requirements

- (2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.
 - (4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.
- (c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department on minor or significant permit modifications, and operational flexibility changes shall be covered by the permit shield. Upon taking final action granting a request for an administrative permit amendment, the Department will allow coverage of the amendment by the permit shield in § 127.516 for administrative amendments which meet the relevant requirements of 25 Pa. Code Article III.
- (d) The permit shield authorized under § 127.516 is in effect for the permit terms and conditions in this Title V permit, including administrative operating permit amendments and minor operating permit modifications.



SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §121.7]

Prohibition of air pollution.

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. Section 4003).

002 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (a). Construction or demolition of buildings or structures.
- (b). Grading, paving, and maintenance of roads and streets.
- (c). Use of roads and streets. Emissions from material in or on trucks, railroad cars, and other vehicular equipment are not considered as emissions from use of roads and streets.
- (d). Clearing of land.
- (e). Stockpiling of materials.
- (f). Sources, and classes of sources, other than those identified in (a) - (e) above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive emissions from the source, after appropriate controls, meet the following requirements:
 - (1). The emissions are of minor significance with respect to causing air pollution; and
 - (2). The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Condition #002, of this Section, if such emissions are visible at the point the emissions pass outside the person's property.

004 [25 Pa. Code §123.31]

Limitations

{MALODOR EMISSIONS}

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]

Limitations

A Permittee may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a). Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.



SECTION C. Site Level Requirements

(b). Equal to or greater than 60% at any time.

006 [25 Pa. Code §123.42]

Exceptions

{VISIBLE EMISSION EXCEPTIONS}

The limitations of Condition #005, of this Section, shall not apply to a visible emission in either of the following instances:

- (a). When the presence of uncombined water is the only reason for failure to meet the limitations.
- (b). When the emission results from the sources specified in Condition #002, of this Section.

007 [25 Pa. Code §129.14]

Open burning operations

No person may permit the open burning of material in the Southeast Air Basin, except when the open burning results from:

- (a). A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b). Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c). A fire set solely for cooking food.
- (d). A fire set solely for recreational or ceremonial purposes.
- (e). A fire set for the prevention and control of disease or pests, when approved by the Department.

II. TESTING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

- (a). If at any time the Department has cause to believe that air contaminant emissions from any source(s) listed in Section A, of this Permit, may be in excess of the limitations specified in this Permit, or established pursuant to, any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s).
- (b). Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

III. MONITORING REQUIREMENTS.

009 [25 Pa. Code §123.43]

Measuring techniques

SECTION C. Site Level Requirements

Visible emissions may be measured using either of the following:

- (a). A device approved by the Department and maintained to provide accurate opacity measurements.
- (b). Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

- (a). The permittee shall monitor the facility, once per operating day, for the following:
 - (1). Odors which may be objectionable.
 - (2). Visible Emissions.
 - (3). Fugitive Particulate Matter.
- (b). All detectable objectionable odors, that originated on-site and cross the property line, as well as fugitive particulate emissions and visible emissions that originated on site shall:
 - (1). Be investigated.
 - (2). Be reported to the facility management, or individual(s) designated by the permittee.
 - (3). Be recorded in a permanent written log.
- (c). After six (6) months of daily monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the monitoring frequency to weekly for the next six month period.
- (d). After six (6) months of weekly monitoring, and upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e). The Department reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). Records of the monitoring and supporting data required by this Operating Permit shall be retained for a minimum of five (5) years.
- (b). Within thirty (30) days after permit issuance, the permittee shall submit, to the Department for approval, the proposed recordkeeping formats required in subparagraph (a), above.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]



SECTION C. Site Level Requirements

The permittee shall maintain a record of all reports of fugitive emissions, visible emissions and malodors which deviate from the terms and conditions of this permit. The report shall contain, at a minimum, the following items:

- (a). Date, time, and location of the incident(s).
- (b). The cause of the event.
- (c). The corrective action taken to abate the deviation and prevent future occurrences.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Operations personnel shall record their observations and findings, each time the facility is monitored for odors, fugitive particulate matter emissions, and visible emissions.

V. REPORTING REQUIREMENTS.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

The Department has changed the deviation and compliance certification reporting requirements. The initial reports for (a) and (b), below, shall be due on the dates provided and may cover only a partial reporting period.

The permittee shall submit the following reports:

- (a). An annual certificate of compliance, due by April 1st of each year, for the period covering January 1 through December 31 of the previous year. This certificate of compliance shall document compliance with all permit terms and conditions set forth in this Title V permit as required under condition #24 of section B of this permit.
- (b). A semi annual deviation report, due by October 1, of each year, for the period covering January 1 through June 30 of the current year.

Note: The annual certification of compliance fulfills the obligation for the second deviation reporting period (July 1 through December 31 of the previous year).

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511(c).]

The report of the monitoring required by Condition #023(a)(1), of Section B, of this permit, shall be submitted to the Department, within six (6) months after final permit issuance, and, at a frequency of at least every six (6) months thereafter.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.511.]

- (a). The permittee shall, within two (2) hours of any occurrence, notify the Department, at (484) 250-5920 of any malfunction of the source(s) or associated air pollution control devices listed in Section A, of this permit, which results in, or may possibly result in, the emission of air contaminants in excess of the limitations specified in this permit, or regulation contained in 25 Pa. Code Article III.

**SECTION C. Site Level Requirements**

(b). Malfunction(s) which occur at this Title V facility, and pose(s) an imminent danger to public health, safety, welfare and the environment, and would violate permit conditions if the source were to continue to operate after the malfunction, shall immediately be reported to the Department by telephone at the above number.

(c). A written report shall be submitted to the Department within two (2) working days following the notification of the incident, and shall describe, at a minimum, the following:

- (1). The malfunction(s).
- (2). The emission(s).
- (3). The duration.
- (4). Any corrective action taken.

017 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The report of the monitoring required by Condition #023(a)(1), of Section B, of this permit, shall be submitted to the Department, within six (6) months after final permit issuance, and, at a frequency of at least every six (6) months thereafter.

018 [25 Pa. Code §135.21]

Emission statements

The permittee shall submit by March 1, of each year, an annual emission statement for the preceding calendar year.

019 [25 Pa. Code §135.3]

Reporting

The permittee shall submit by March 1, of each year, an Air Information Management System (AIMS) inventory report for the preceding calendar year.

VI. WORK PRACTICE REQUIREMENTS.

020 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

A person responsible for any source specified in Condition #002, of this Section, shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a). Use, where possible, of water or suitable chemicals, as approved by the Department, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (b). Application of asphalt, water, or other suitable chemicals, as approved by the Department, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (c). Paving and maintenance of roadways.
- (d). Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

**SECTION C. Site Level Requirements**

- (a). The permittee may not modify any source identified in Section A, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition #017(g), of Section B, of this permit.
- (b). If an unauthorized modification of any source occurs at this facility, the permittee shall immediately notify the Department. If so directed by the Department, then this permit, as it pertains to the modified source(s), shall be suspended and the source(s) shall not be operated until the modification is authorized by the department.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512(h).]

The permittee shall ensure that the sources and air pollution control devices, listed in Sections A, D, and G of this permit, are operated and maintained in a manner consistent with good operating and maintenance practices, and in accordance with manufacturers specifications.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 129.91]

The permittee shall immediately implement all reasonable measures, which may include the application for the installation of air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A, of this permit, is causing the emission of air contaminants in excess of the limitations specified in, or established pursuant to, 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

*** Permit Shield In Effect ***

**SECTION D. Source Level Requirements**

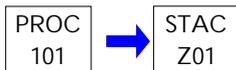
Source ID: 101

Source Name: VAPOR DEGREASER

Source Capacity/Throughput:

6.400 Lbs/HR

SOLVENT

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512]

- A. The Trichloroethylene (TCE) emissions shall not exceed twenty-two (22.0) tons per year on a 12-month rolling basis.
- B. The permittee is authorized to use a non hazardous air pollutant (HAP) VOC solvent (n-propyl bromide or equivalent) in the vapor degreaser. The emissions of VOC shall not exceed twenty-three (23.0) tons per year on a 12-month rolling basis.
- C. There shall be no increase in HAP emissions under this modified Operating Permit.
- D. Should the permittee opt to discontinue the use of TCE altogether in the vapor degreaser, the permittee shall notify the Department. The Department may revise the applicable conditions pertaining to the use of TCE and those written under the MACT regulations to make the discontinuation enforceable.
- E. Once the permittee makes a replacement of TCE by nPB as a solvent in a source and then decides to switch back to TCE from nPB, the Department shall be notified in writing, 10 working days prior to the switch back. The Department reserves the right to ask for additional information regarding the use of TCE.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall not operate this source more than 6120 hours per year.

Control Device Efficiencies Restriction(s).

003 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

**Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch vapor and in-line cleaning machine standards**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

A. The permittee shall comply with the following control combination set in the MACT Standards for halogenated solvent degreasers with a solvent/air interface area greater than 1.21 square meters (13 square feet):

- (a). Freeboard Ratio of 1.0
- (b). Freeboard refrigeration device



SECTION D. Source Level Requirements

(c). Reduced room draft.

B. When using non-halogenated solvents, the permittee shall continue to use the following control combinations:

(a). Freeboard Ratio of 1.0

(b). Reduced room draft.

004 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Batch vapor and in-line cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.512.]

[Compliance with the requirement in this streamlined permit condition assures compliance with the provisions found in the applicable requirements of Pa. Code § 129.63.]

(a). For a freeboard refrigeration device, the permittee shall ensure that the chilled air blanket temperature (in degrees F) measured at the center of the air blanket, is no greater than 30 percent of the solvent's boiling point.

(b). For the reduced room draft, the permittee shall comply with the following requirements:

(1). Ensure that the flow or movement of air across the top of the solvent cleaning machine enclosure does not exceed 15.2 meters per minute (50 feet per minute) at any time as measured using the monitoring requirements for this degreaser.

(2). Establish and maintain the operating conditions under which the wind speed was demonstrated to be 15.2 meters per minute (50 feet per minute) or less.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall monitor the following:

(a). Amount of solvent (virgin or recycled) added to the batch solvent cleaning machine on a weekly basis.

(b). The amount of solvent removed from the batch solvent cleaning machine on a weekly basis.

(c). The hours of operation for the batch solvent cleaning machine on a daily basis.

(d). Calculate VOC emissions based on inventory losses monthly.

(e). The temperature of the vapor space between the refrigerant coils and the temperature of the refrigerant in and out of the coils on a daily basis.

[Compliance with (e) above assures compliance with 40 CFR § 63.466.]

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.466]

**SECTION D. Source Level Requirements****Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Monitoring procedures**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

For the maintenance of reduced room draft by the control of room parameters (i.e., redirecting fans, closing doors and windows, etc.), the permittee shall conduct quarterly monitoring of windspeed, and weekly monitoring of room parameters specified as follows:

(a). Measure the windspeed within 6 inches above the top of the freeboard area of the solvent cleaning machine using the following procedures:

- (1). Determine the direction of the wind current by slowly rotating a velometer or similar device until the maximum speed is located.
- (2). Orient the velometer in the direction of the wind current at each of the four corners of the machine.
- (3). Record the reading for each corner.
- (4). Average the values obtained at each corner and record the average wind speed.

(b). Monitor on a weekly basis the room parameters established during the initial compliance test that are used to achieve the reduced room draft.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.466]
**Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Monitoring procedures**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

Each owner or operator of a batch vapor solvent cleaning machine complying with the equipment or idling standards in 40 C.F.R. § 63.463 shall monitor the hoist speed as described in paragraphs (a) through (d) below.

- (a). The owner or operator shall determine the hoist speed by measuring the time it takes for the hoist to travel a measured distance. The speed is equal to the distance in meters divided by the time in minutes (meters per minute).
- (b). The monitoring shall be conducted monthly. If after the first year, no exceedances of the hoist speed are measured, the owner or operator may begin monitoring the hoist speed quarterly.
- (c). If an exceedance of the hoist speed occurs during quarterly monitoring, the monitoring frequency returns to monthly until another year of compliance without an exceedance is demonstrated.
- (d). If an owner or operator can demonstrate to the Administrator's satisfaction in the initial compliance report that the hoist cannot exceed a speed of 3.4 meters per minute (11 feet per minute), the required monitoring frequency is quarterly, including during the first year of compliance.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]
Operating permit terms and conditions.

The permittee shall keep records of the following:



SECTION D. Source Level Requirements

- (a). Amount of solvent (virgin or recycled) added to the batch solvent cleaning machine on a weekly basis.
- (b). The amount of solvent removed from the batch solvent cleaning machine on a weekly basis.
- (c). The hours of operation for the batch solvent cleaning machine on a daily basis.
- (d). The VOC emissions monthly.
- (e). The temperature of the vapor space between the refrigerant coils and the temperature of the refrigerant in and out of the coils on a daily basis.

[Compliance with (e) above assures compliance with 40 CFR § 63.466.]

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The permittee shall record the results of the monitoring of the room parameters established during the initial compliance test that was used to achieve the reduced room draft on a weekly basis.
- (b). The permittee shall record the results for the monitoring of the windspeed across the batch solvent cleaning machine on a quarterly basis.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a). The permittee shall record the results of the monitoring of the hoist speed established during the initial compliance test.
- (b). The permittee shall record the results for the monitoring of the hoist speed across the batch solvent cleaning machine whenever the hoist speed is measured.

011 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.467]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning Recordkeeping requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

- (a). The permittee shall maintain records in written or electronic form specified as follows for the lifetime of the machine.
 - (1). Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.
 - (2). Records of the halogenated HAP solvent content for each solvent used.
- (b). Each owner or operator of a batch vapor solvent cleaning machine shall maintain records of the data for the freeboard refrigeration device and reduced room draft either in electronic or written form for a period of 5 years.

V. REPORTING REQUIREMENTS.

012 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs (a) through (c) of this section are met.

- (a). The source has demonstrated a full year of compliance without an exceedance.



SECTION D. Source Level Requirements

(b). The permittee continues to comply with all relevant recordkeeping and monitoring requirements specified subpart A (General Provisions) and in this subpart.

(c). The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of subpart A (General Provisions).

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee who operates a batch vapor solvent cleaning machine shall submit an exceedance report to the Administrator semiannually except when, the Administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency under paragraph (i) of this section is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in paragraphs (a) through (c) of this section.

(a). Information on the actions taken to comply with 63.463(e). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(b). If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(c). If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee who uses a batch vapor solvent cleaning machine complying with the provisions of 40 C.F.R. § 63.463 shall submit an annual report by February 1 of the year following the one for which the reporting is being made. This report shall include the requirements specified in paragraphs (a) and (b) of this section.

(a). A signed statement from the facility owner or his designee stating that, "All operators of solvent cleaning machines have received training on the proper operation of solvent cleaning machines and their control devices sufficient to pass the test required in 40 C.F.R. § 63.463(d)(10)."

(b). An estimate of solvent consumption for each solvent cleaning machine during the reporting period.

015 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

[Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements](#)

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441.]

The permittee who uses a batch vapor solvent cleaning machine complying with the provisions of 40 C.F.R. § 63.463 shall



SECTION D. Source Level Requirements

submit to the Administrator an initial statement of compliance for each solvent cleaning machine. For existing sources, this report shall be submitted to the Administrator no later than 150 days after the compliance date specified in 40 C.F.R. § 63.460(d). For new sources, this report shall be submitted to the Administrator no later than 150 days after startup or May 1, 1995, whichever is later. This statement shall include the requirements specified in paragraphs (a) through (e) of this section.

- (a). The name and address of the owner or operator.
- (b). The address (i.e., physical location) of the solvent cleaning machine(s).
- (c). A list of the control equipment used to achieve compliance for each solvent cleaning machine.
- (d). For each piece of control equipment required to be monitored, a list of the parameters that are monitored and the values of these parameters measured on or during the first month after the compliance date.
- (e). Conditions to maintain the wind speed requirements of 40 C.F.R. § 63.463(e)(2)(ii), if applicable.

VI. WORK PRACTICE REQUIREMENTS.

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall ensure that the batch vapor solvent cleaning machine conforms to the design requirements specified in paragraphs (a) through (g) below.

- (a). Minimize solvent carryout by: racking all parts to allow full drainage; moving parts in and out of the degreaser at less than 11 feet per minute; decreasing the workload in the vapor zone at least 30 seconds or until condensation ceases; tipping out any pools of solvent on the cleaned parts before removal; and allowing parts to dry within the degreaser for at least 15 seconds or until visually dry.
- (b). The degreaser should be equipped with a safety switch which shuts off the sump heat if condenser coolant is either not circulating or too warm -- condenser flow switch and thermostat.
- (c). The degreaser should be equipped with a safety switch which shuts off the spray pump if the vapor level drops more than 4 inches.
- (d). Repair solvent leaks immediately or shutdown the degreaser.
- (e). Do not dispose of waste solvent or transfer it to another party such that greater than 20% of the waste by weight will evaporate into the atmosphere; store waste solvent only in closed containers.
- (f). Exhaust ventilation should not exceed 65 cfm per square foot of degreaser open area, unless necessary to meet OSHA requirements; ventilation fans should not be used near the degreaser opening.
- (g). Water should not be visually detectable in solvent exiting the water separator.

017 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.463]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning Batch vapor and in-line cleaning machine standards

[Additional authority for this permit condition is also derived from 25 Pa. Code §§ 127.441 and 129.63.]

**SECTION D. Source Level Requirements**

[Compliance with the requirements in this streamlined permit condition assures compliance with provisions found in applicable requirements of 25 Pa. Code § 129.63]

(a). The permittee which uses an existing batch vapor solvent cleaning machine shall meet all of the following required work and operational practices specified below as applicable.

(1). Control air disturbances across the cleaning machine opening by incorporating the following control equipment or techniques.

(i). The cover to the solvent cleaning machine shall be in place during the idling mode, and during the downtime mode unless either the solvent has been removed from the machine or maintenance or monitoring is being performed that requires the cover to not be in place.

(ii). A reduced room draft across the degreaser.

(2). The cleaning machine shall have a freeboard ratio of 0.75 or greater.

(3). The parts basket in an open-top batch vapor cleaning machine shall not occupy more than 50 percent of the solvent/air interface area unless the parts baskets or parts are introduced at a speed of 0.9 meters per minute (3 feet per minute) or less.

(c). Any spraying operations shall be done within the vapor zone or within a section of the solvent cleaning machine that is not directly exposed to the ambient air (i.e., a baffled or enclosed area of the solvent cleaning machine).

(d). Parts shall be oriented so that the solvent drains from them freely. Parts having cavities or blind holes shall be tipped or rotated before being removed from any solvent cleaning machine unless an equally effective approach has been approved by the Administrator.

(e). Parts baskets or parts shall not be removed from any solvent cleaning machine until dripping has stopped.

(f). During startup of each vapor cleaning machine, the primary condenser shall be turned on before the sump heater.

(g). During shutdown of each vapor cleaning machine, the sump heater shall be turned off and the solvent vapor layer allowed to collapse before the primary condenser is turned off.

(h). When solvent is added or drained from any solvent cleaning machine, the solvent shall be transferred using threaded or other leakproof couplings and the end of the pipe in the solvent sump shall be located beneath the liquid solvent surface.

(i). The solvent cleaning machine and associated controls shall be maintained as recommended by the manufacturers of the equipment or using alternative maintenance practices that have been demonstrated to the Administrator's satisfaction to achieve the same or better results as those recommended by the manufacturer.

(j). Each operator of a solvent cleaning machine shall complete and pass the applicable sections of the test of solvent cleaning operating procedures (40 CFR Part 63 Subpart B Appendix B) if requested during an inspection by the Administrator.

(k). Waste solvent, still bottoms, and sump bottoms shall be collected and stored in closed containers. The closed containers may contain a device that would allow pressure relief, but would not allow liquid solvent to drain from the container.

(l). Sponges, fabric, wood, and paper products shall not be cleaned.



SECTION D. Source Level Requirements

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

For the purpose of this Title V Permit, the terms cleaning machine, batch solvent cleaning machine, batch solvent vapor cleaning machine, solvent cleaning machine and vapor degreaser have the same meaning.

*** Permit Shield in Effect. ***



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.



SECTION F. Emission Restriction Summary.

Source Id	Source Description		
101	VAPOR DEGREASER		
Emission Limit		Pollutant	
22.000	Tons/Yr	12-month rolling basis	Hazardous Air Pollutants
23.000	Tons/Yr	12-month rolling basis	VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION G. Miscellaneous.****#001. INSIGNIFICANT ACTIVITIES**

The Department has determined that the emissions from the following activities, excluding those indicated as site level requirements, in Section C, of this permit, do not require additional limitations, monitoring, or recordkeeping:

- (a). Gas Fired water heater (700,000 BTU/hr heat input) for Source 101 (Degreaser).
- (b). Two dust collectors used for removing Chromium fines from the process for proper disposal. The units are enclosed.
- (c). The hydrogen/vapor fired annealing furnaces whose emissions are minimal
- (d). Seven (7) natural gas fired space heaters rated at 200,000 BTU/hr each. Total heat input from the space heaters is equal to 1.4 MMBTU/hr.

#002. GENERAL

The following previously issued Operating Permits serve as the basis for certain terms and conditions set forth in this Title V Permit:

Permit No.46-327-010
Permit No.46-327-010A

#003. APS No. 344994; Authorization No. 627341: Title V Operating Permit Renewal.

#004. APS No. 344994; Authorization No. 712170: Title V
Minor Operating Permit Modification.



***** End of Report *****



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: December 12, 2007

Effective Date: December 12, 2007

Expiration Date: June 30, 2009

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

[Plan Approval No. 43-142A](#)

Federal Tax Id - Plant Code: 25-1651664-1

Plan Approval Description

This Plan Approval is for the construction a Trichloroethylene (TCE) Vacuum Cleaning and Degreasing Machine.

Owner Information

Name: SALEM TUBE INC
Mailing Address: 951 4TH ST
REYNOLDS INDUSTRIAL PARK
GREENVILLE, PA 16125-8253

Plant Information

Plant: SALEM TUBE INC/GREENVILLE REYNOLDS IND PK
Location: 43 Mercer County 43932 Pymatuning Township
SIC Code: 3312 Manufacturing - Blast Furnaces And Steel Mills

Responsible Official

Name: FRED PROSSEN
Title: TREASURER
Phone: (724) 646 - 4301

Plan Approval Contact Person

Name: YOGESH SHUKLA
Title: MANAGER ENGINEERING
Phone: (724) 646 - 4301

[Signature] _____
JOHN F GUTH, NORTHWEST REGION AIR PROGRAM MANAGER



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Note: These same sub-sections are repeated for each source!

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Section F. Emission Restriction Summary

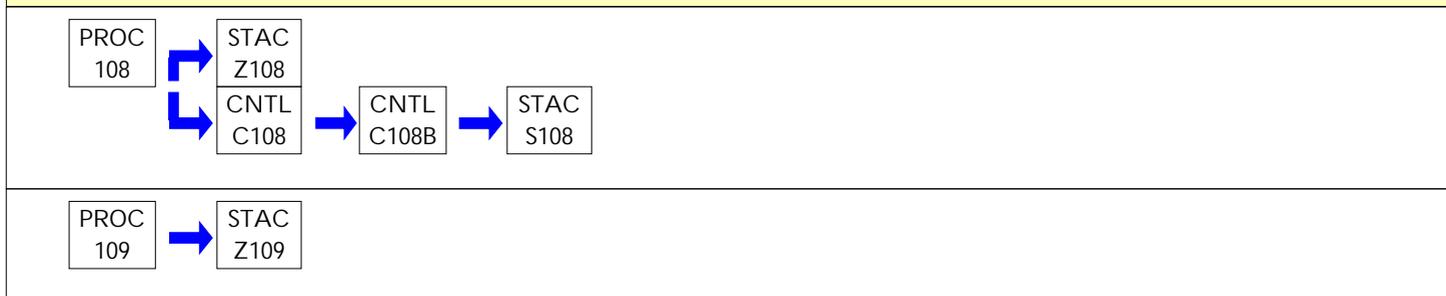


SECTION A. Table of Contents

Section G. Miscellaneous

SECTION A. Plan Approval Inventory List

Source ID	Source Name	Capacity/Throughput	Fuel/Material
108	VACUUM CLEANING AND DEGREASING MACHINE	24,000.000 Lbs/HR	
109	TCE STORAGE TANK		
C108	EMO CARBON ADSORPTION UNIT		
C108B	NON REGENERABLE ACTIVATED CARBON BARREL FILTER		
S108	CARBON ADSORPTION SYSTEM EXHAUST		
Z108	FUGITIVES FROM VACUUM CLEANING AND DEGREASING MACHINE		
Z109	TCE TANK FUGITIVE EMISSIONS		

PERMIT MAPS



SECTION B. General Plan Approval Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]

Future Adoption of Requirements

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]

Plan Approval Temporary Operation

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 15 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 120 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]

Content of Applications

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]

Public Records and Confidential Information

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.



SECTION B. General Plan Approval Requirements

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]

Plan Approval terms and conditions.

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]

Transfer of Plan Approvals

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(4) & 35 P.S. § 4008 & § 114 of the CAA]

Inspection and Entry

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel



SECTION B. General Plan Approval Requirements

in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]

Plan Approval Extensions

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]

Submissions

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(9) & 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention



SECTION B. General Plan Approval Requirements

provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 127.25]

Compliance Requirement

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

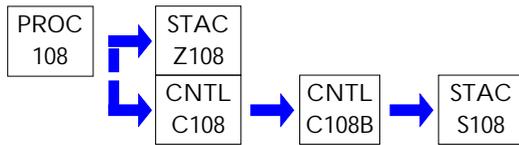
No compliance milestones exist.

SECTION D. Source Level Plan Approval Requirements

Source ID: 108

Source Name: VACUUM CLEANING AND DEGREASING MACHINE

Source Capacity/Throughput: 24,000.000 Lbs/HR

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee may not permit the emissions of TCE or VOC from the degreaser to exceed 17 Kg/m²/month (based on solvent interface area) calculated as a 3 month rolling average, and 2.5 ton of TCE or VOC in any consecutive 12 month rolling period.

The facility may petition the Department in writing for a higher limit if actual operations indicate higher emissions and the Department reserves the right to impose a lower limit if actual operations indicate lower emissions.

[Authority for this condition satisfies 40 CFR 63.464]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Four infrared spectral photometers will be installed and operated to continuously measure solvent concentrations. They will be located:

1. At the cleaning chamber to allow the automatic door to release only when TCE levels are below 5g/cubic meter.
2. After the regenerable activated carbon filter to indicate TCE levels and near breakthrough.
3. After the non-regenerable activated carbon filter if installed.
4. In the workplace around the Vacuum Cleaning and Degreasing System.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) Records of TCE purchases and usage shall be maintained for 5 years and shall be made available to the Department upon request.

(b) Records of the waste solvent removed from the system shall be maintained for 5 years and shall be made available to the Department upon request.

(c) Records of the TCE concentrations measured by the four infrared spectral photometers shall be maintained for 5 years and made available to the Department upon request.



SECTION D. Source Level Plan Approval Requirements

(d) These records shall be used to verify the compliance with emission limitations.
[This condition assures compliance with 25 Pa. Code § 129.95]

004 [25 Pa. Code §127.511]

Monitoring and related recordkeeping and reporting requirements.

The permittee shall maintain and make available upon request to the Department the following monthly records:

- a) Monthly production of tubes (in pounds),
- b) Solvent usage,
- c) TCE Solvent waste shipped off-site,
- d) Corresponding 12 month rolling total of VOC emissions, calculated as trichloroethylene, from operation of this source. The permittee shall add the VOC emissions from the most recent month to the VOC emissions from the previous eleven months to determine the 12 month rolling total.
- e) any other information needed to quantify the actual emissions.

005 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10]

**Subpart A--General Provisions
Recordkeeping and reporting requirements.**

The owner or operator of an affected source subject to the provisions of this part shall maintain relevant records for such source of--

- (i) The occurrence and duration of each startup, shutdown, or malfunction of operation (i.e., process equipment);
- (ii) The occurrence and duration of each malfunction of the air pollution control equipment;
- (iii) All maintenance performed on the air pollution control equipment;
- (iv) Actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) when such actions are different from the procedures specified in the affected source's startup, shutdown, and malfunction plan.
- (v) All information necessary to demonstrate conformance with the affected source's startup, shutdown, and malfunction plan and all actions taken during periods of startup, shutdown, and malfunction (including corrective actions to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation) are consistent with the procedures specified in such plan. (The information needed to demonstrate conformance with the startup, shutdown, and malfunction plan may be recorded using a "checklist," or some other effective form of recordkeeping, in order to minimize the recordkeeping burden for conforming events.)

006 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.464]

**Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Alternative standards**

An owner or operator shall maintain a log of solvent additions and deletions for each solvent cleaning machine.

007 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.467]

**Subpart T--National Emission Standards for Halogenated Solvent Cleaning
Recordkeeping requirements**



SECTION D. Source Level Plan Approval Requirements

(a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.463 shall maintain records in written or electronic form specified in paragraphs (a)(1) through (7) of this section for the lifetime of the machine.

(1) Owner's manuals, or if not available, written maintenance and operating procedures, for the solvent cleaning machine and control equipment.

(2) The date of installation for the solvent cleaning machine and all of its control devices. If the exact date for installation is not known, a letter certifying that the cleaning machine and its control devices were installed prior to, or on, November 29, 1993, or after November 29, 1993, may be substituted.

(3) Not applicable

(4) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the idling emission limit standards of §63.463(b)(1)(ii), (b)(2)(ii), (c)(1)(ii), or (c)(2)(ii) shall maintain records of the initial performance test, including the idling emission rate and values of the monitoring parameters measured during the test.

(5) Records of the halogenated HAP solvent content for each solvent used in a solvent cleaning machine subject to the provisions of this subpart.

(6) Not applicable

(7) Not applicable

(b) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with §63.463 shall maintain records specified in paragraphs (b)(1) through (b)(4) of this section either in electronic or written form for a period of 5 years.

(1) The results of control device monitoring required under §63.466.

(2) Information on the actions taken to comply with §63.463(e) and (f). This information shall include records of written or verbal orders for replacement parts, a description of the repairs made, and additional monitoring conducted to demonstrate that monitored parameters have returned to accepted levels.

(3) Estimates of annual solvent consumption for each solvent cleaning machine.

(4) If a carbon adsorber is used to comply with these standards, records of the date and results of the weekly measurement of the halogenated HAP solvent concentration in the carbon adsorber exhaust required in §63.466(e).

(c) Except as provided in paragraph (e) of this section for continuous web cleaning machines, each owner or operator of a batch vapor or in-line solvent cleaning machine complying with the provisions of §63.464 shall maintain records specified in paragraphs (c)(1) through (3) of this section either in electronic or written form for a period of 5 years.

(1) The dates and amounts of solvent that are added to the solvent cleaning machine.

(2) The solvent composition of wastes removed from cleaning machines as determined using the procedure described in §63.465(c)(2).

(3) Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations.

(d) Each owner or operator of a solvent cleaning machine without a solvent/air interface complying with the provisions of §63.464 shall maintain records on the method used to determine the cleaning capacity of the cleaning machine.



SECTION D. Source Level Plan Approval Requirements

(e) Not applicable

Each owner or operator of a batch vapor solvent cleaning machine shall maintain records specified in paragraphs (a)(1) through (a)(3) of this section either in electronic or written form for a period of 5 years.

(1) The dates and amounts of solvent that are added to the solvent cleaning machine.

(2) The solvent composition of wastes removed from cleaning machines and the procedure used to determine the solvent composition.

(3) Calculation sheets showing how monthly emissions and the rolling 3-month average emissions from the solvent cleaning machine were determined, and the results of all calculations.

V. REPORTING REQUIREMENTS.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The maximum TCE concentration measured by the infrared spectral photometers located after the regenerable activated carbon filter, after the non-regenerable activated carbon barrel filter if installed and in the workplace around the Vacuum Cleaning and Degreasing System shall be determined within 30 days of issuance of the plan approval, and shall be indicated to the Department in writing along with calculations that show that this concentration will insure compliance with the emission limit. The maximum TCE concentrations shall become the standard operating parameters for the photometers and shall be made part of the facility operating permit.

[Compliance with this condition ensures compliance with 40 CFR 63.464 Alternative Standards]

009 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.10]

Subpart A--General Provisions

Recordkeeping and reporting requirements.

(a) Periodic startup, shutdown, and malfunction reports.

If actions taken by an owner or operator during a startup, shutdown, or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan [see Condition #013] the owner or operator shall state such information in a startup, shutdown, and malfunction report. Reports shall only be required if a startup, shutdown, or malfunction occurred during the reporting period. The startup, shutdown, and malfunction report shall consist of a letter, containing the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, that shall be submitted to the Administrator semiannually. The startup, shutdown, and malfunction report shall be delivered or postmarked by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). If the owner or operator is required to submit excess emissions or other periodic reports under this part, the startup, shutdown, and malfunction reports required under this paragraph may be submitted simultaneously with the excess emissions or other reports.

(b) Immediate startup, shutdown, and malfunction reports.

Any time an action taken by an owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under this paragraph shall consist of a telephone call (or facsimile [FAX] transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a

**SECTION D. Source Level Plan Approval Requirements**

letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the owner or operator or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, and whether any excess emissions and/or parameter monitoring exceedances are believed to have occurred.

010 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.468]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning Reporting requirements

(a) Each owner or operator of a batch vapor solvent cleaning machine shall submit a solvent emission report every year. This solvent emission report shall contain the requirements specified in paragraphs (a)(1) through (a)(4) of this condition.

(1) The size and type of each unit subject to this subpart (solvent/air interface area or cleaning capacity).

(2) The average monthly solvent consumption for the solvent cleaning machine in kilograms per month.

(3) The 3-month monthly rolling average solvent emission estimates calculated each month using the method as approved by the Department.

(4) The reports required under paragraphs (b) and (c) of this section can be combined into a single report for each facility.

(b) Each owner or operator of a batch vapor solvent cleaning machine shall submit an exceedance report to the administrator semiannually except when, the administrator determines on a case-by-case basis that more frequent reporting is necessary to accurately assess the compliance status of the source or, an exceedance occurs. Once an exceedance has occurred the owner or operator shall follow a quarterly reporting format until a request to reduce reporting frequency made under Paragraph (c) below, is approved. Exceedance reports shall be delivered or postmarked by the 30th day following the end of each calendar half or quarter, as appropriate. The exceedance report shall include the applicable information in Items (1) and (2) below :

(1) If an exceedance has occurred, the reason for the exceedance and a description of the actions taken.

(2) If no exceedances of a parameter have occurred, or a piece of equipment has not been inoperative, out of control, repaired, or adjusted, such information shall be stated in the report.

(c) An owner or operator who is required to submit an exceedance report on a quarterly (or more frequent) basis may reduce the frequency of reporting to semiannual if the conditions in paragraphs (c)(1) through (c)(3) of this section are met.

(1) The source has demonstrated a full year of compliance without an exceedance.

(2) The owner or operator continues to comply with all relevant recordkeeping and monitoring requirements specified in 40 CFR Part 63, Subpart A (General Provisions) and in this permit.

(3) The Administrator does not object to a reduced frequency of reporting for the affected source as provided in paragraph (e)(3)(iii) of 40 CFR Part 63, Subpart A (General Provisions).

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

(a) The permittee shall install and operate the system as described in the plan approval application submitted by Salem Tube to the Department dated May 8, 2007 and additional information submitted July 24, 2007, October 5, 2007 and October 25, 2007.



SECTION D. Source Level Plan Approval Requirements

(b) The permittee shall operate and maintain the degreasing system in accordance with the manufacturer's specifications and good air pollution control practices. A copy of the manufacturer's specifications shall be kept on site.

012 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The vapor degreaser shall be operated in accordance with the following requirements:

- (a) Do not degrease porous or absorbent materials, such as cloth, leather, wood or rope.
- (b) Do not dispose of waste solvent or transfer it to another party such that greater than 20% of the waste by weight will evaporate into the atmosphere; store waste solvent only in closed containers.
- (c) The entire cleaning and degreasing operation is conducted under negative pressure.
- (d) Enclosed design in which the cover or door opens only when the dry part is actually entering or exiting the degreaser.
- (e) A permanent, conspicuous label summarizing the operating procedures.

VII. ADDITIONAL REQUIREMENTS.

013 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.464]

Subpart T--National Emission Standards for Halogenated Solvent Cleaning

Alternative standards

- (a) Each owner or operator of a batch vapor or in-line solvent cleaning machine complying with 63.464(a) shall demonstrate compliance with the applicable 3-month rolling average monthly emission limit on a monthly basis.
- (b) If the applicable 3-month rolling average emission limit is not met, an exceedance has occurred. All exceedances shall be reported as required in the applicable reporting condition.

014 [40 CFR Part 63 NESHAPS for Source Categories §40 CFR 63.6]

Subpart A--General Provisions

Compliance with standards and maintenance requirements.

Operation and maintenance requirements.

- (1)(i) At all times, including periods of startup, shutdown, and malfunction, owners or operators shall operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards.
- (ii) Malfunctions shall be corrected as soon as practicable after their occurrence in accordance with the startup, shutdown, and malfunction plan required in paragraph (3) of this section.
- (iii) Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.
- (2) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures [including the startup, shutdown, and malfunction plan required in paragraph (3) of this section], review of operation and maintenance records, and inspection of the source.
- (3) Startup, Shutdown, and Malfunction Plan.
 - (i) The owner or operator of an affected source shall develop and implement a written startup, shutdown, and malfunction

SECTION D. Source Level Plan Approval Requirements

plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction and a program of corrective action for malfunctioning process and air pollution control equipment used to comply with the relevant standard. This plan shall be developed by the owner or operator by the source's compliance date for that relevant standard. The plan shall be incorporated by reference into the source's Title V permit. The purpose of the startup, shutdown, and malfunction plan is to--

(A) Ensure that, at all times, owners or operators operate and maintain affected sources, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards;

(B) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and

(C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).

(ii) During periods of startup, shutdown, and malfunction, the owner or operator of an affected source shall operate and maintain such source (including associated air pollution control equipment) in accordance with the procedures specified in the startup, shutdown, and malfunction plan developed under paragraph (3)(i) of this section.

(iii) When actions taken by the owner or operator during a startup, shutdown, or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall keep records for that event that demonstrate that the procedures specified in the plan were followed. These records may take the form of a "checklist," or other effective form of recordkeeping, that confirms conformance with the startup, shutdown, and malfunction plan for that event. In addition, the owner or operator shall keep records of these events as specified in Section B and elsewhere in this permit, including records of the occurrence and duration of each startup, shutdown, or malfunction of operation and each malfunction of the air pollution control equipment. Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required [63.10(d)(5)].

(iv) If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator shall record the actions taken for that event and shall report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 63.10(d)(5).

(v) The owner or operator shall keep the written startup, shutdown, and malfunction plan on record after it is developed to be made available for inspection, upon request, by the Administrator for the life of the affected source or until the affected source is no longer subject to the provisions of this part. In addition, if the startup, shutdown, and malfunction plan is revised, the owner or operator shall keep previous (i.e., superseded) versions of the startup, shutdown, and malfunction plan on record, to be made available for inspection, upon request, by the Administrator, for a period of 5 years after each revision to the plan.

(vi) To satisfy the requirements of this section to develop a startup, shutdown, and malfunction plan, the owner or operator may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection when requested by the Administrator.

(vii) Based on the results of a determination made under paragraph (e)(2) of this section, the Administrator may require that an owner or operator of an affected source make changes to the startup, shutdown, and malfunction plan for that source.

SECTION D. Source Level Plan Approval Requirements

The Administrator may require reasonable revisions to a startup, shutdown, and malfunction plan, if the Administrator finds that the plan:

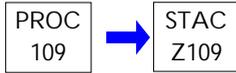
- (A) Does not address a startup, shutdown, or malfunction event that has occurred;
 - (B) Fails to provide for the operation of the source (including associated air pollution control equipment) during a startup, shutdown, or malfunction event in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels required by all relevant standards; or
 - (C) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control equipment as quickly as practicable.
- (viii) If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator shall revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control equipment.

SECTION D. Source Level Plan Approval Requirements

Source ID: 109

Source Name: TCE STORAGE TANK

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this Plan Approval facility.



SECTION F. Emission Restriction Summary.

Source Id	Source Description
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108	VACUUM CLEANING AND DEGREASING MACHINE
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Emission Limit		Pollutant	
2.500	Tons/Yr	12 month rolling period	Trichloroethylene
17,000.000	GRAMS/Mth	per meter squared based on a 3 month rolling average	Trichloroethylene
2.500	Tons/Yr	12 month rolling period	VOC
17,000.000	GRAMS/Mth	per meter squared based on a 3 month rolling average	VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION G. Miscellaneous.



***** End of Report *****

