The attached pages should replace corresponding pages in the Current Conditions Report/New Jersey Preliminary Assessment Report (2 May 2002) for the General Motors Vehicle Manufacturing - Linden Assembly plant. The attached represent the following:

- Correction to Title Page to correct facility name, add day of month to the report date (Volume I Title page and Volume II Title page)
- Corrections to Table of Contents to correct page references, formatting, and section titles.
- Corrections to List of Figures to include Figure 1.3 and correct figure titles to be consistent with figures.
- Correction to List of Appendices to reflect Appendix titles.
- Correction to List of Acronyms and Terms to include additionally used acronyms and terms.
- page 1 of text correct facility name
- page 28 correct reference to soil boring SB-1 (not SB-A)
- page 32 change reference from "Appendix N" to "Table 6.2"
- page 33 change reference from "Appendix O" to "Table 6.3"
- Table 1.1 Correct names of AOIs to be consistent with text
- Table 6.1 Move existing Table 7.1 to, and renumber to Table 6.1
- Table 6.2 Move existing Table 6.1 to, and renumber to Table 6.2
- Table 6.3 Move existing Table 6.2 to, and renumber to Table 6.3
- Reissue Figures 1.2, 1.3, 2.1 and 3.1 to add "West Edgar Road (U.S. Route 1 and 9)" to street south (PN) of the facility.

Please note, this also removes a duplicate of page 43.

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# CURRENT CONDITIONS REPORT
# AND
# NEW JERSEY PRELIMINARY ASSESSMENT REPORT

GENERAL MOTORS CORPORATION
GENERAL MOTORS VEHICLE MANUFACTURING -
LINDEN ASSEMBLY
1016 WEST EDGAR ROAD
LINDEN, NEW JERSEY

EPA ID #NJD002186690
NJDEP Case No. 95-01-25-1618-35

Volume I - Text, Figures, and Tables

Prepared For: GENERAL MOTORS CORPORATION
TROY, MICHIGAN

Prepared by: ENCORE, LLC

2 MAY 2002

Lakefront Professional Center ■ 295C Route 46 ■ Budd Lake, NJ 07828
Telephone (973) 691-5200 ■ Fax (973) 691-5210 ■ E-Mail : BellNJ@BellEnvironmental.com

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# AND
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Volume II - APPENDICES

Prepared For: GENERAL MOTORS CORPORATION
TROY, MICHIGAN

Prepared by: ENCORE, LLC

2 MAY 2002

Lakefront Professional Center ■ 295C Route 46 ■ Budd Lake, NJ 07828
Telephone (973) 691-5200 ■ Fax (973) 691-5210 ■ E-Mail : BellNJ@BellEnvironmental.com

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## LIST OF ACRONYMS AND TERMS

| | |
|---|---|
| aka | also known as |
| AOI | Area of Interest |
| AMF | Anchor Motor Freight, Inc. |
| AST | Above Ground Storage Tank |
| BELL | Bell Environmental |
| Bgs | Below Ground Surface |
| BN+15 | Base/Neutral Extractable Compounds With a Forward Library Search for 15 Tentatively Identified Compounds |
| C1 | Category One |
| CA | Corrective Actions |
| CCR | Current Conditions Report |
| CRTK | Community Right to Know |
| CVOCs | Chlorinated Volatile Organic Compounds |
| DICAR | Discharge Investigation and Corrective Action Report |
| °F | Degrees Fahrenheit |
| EPI/PA | Environmental Priorities Initiative/Preliminary Assessment |
| FW | Fresh Water |
| GM | General Motors |
| gpd | gallons per day |
| GWQS | Ground Water Quality Standards |
| HQ | Hazard Quotient |
| IGWSCC | Impact to Groundwater Soil Cleanup Criteria |
| KCSL | Known Contaminated Site List |
| LRSA | Linden-Roselle Sewer Authority |
| LNAPL | Light Non-Aqueous Phase Liquid |
| MCL | Maximum Concentration Limit |
| MOA | Memorandum of Agreement |
| MSDS | Material Safety Data Sheet |
| MTBE | Methyl Tert-Butyl Ether |
| NJAC | New Jersey Administrative Code |
| NJDEP | New Jersey Department of Environmental Protection |

| | |
|---|---|
| NJPAR | New Jersey Preliminary Assessment Report |
| NRCS | Natural Resource Conservation Service |
| NT | Non Trout |
| OH | Olsen and Hassold |
| PA | Preliminary Assessment |
| PCB | Polychlorinated Biphenyls |
| PE | Post-excavation |
| PID | Photoionization Detector |
| PN | Plant North |
| PRG | Preliminary Remediation Goals |
| RAW | Remedial Action Workplan |
| RCRA | Resource Conservation and Recovery Act |
| RDCSCC | Residential Direct Contact Soil Cleanup Criteria |
| RFT | RCRA Facility Investigation |
| RI | Remedial Investigation |
| RIR | Remedial Investigation Report |
| SE | Saline Estuary |
| SWMU | Solid Waste Management Units |
| TBA | Tert-Butyl Alcohol |
| TCL | Target Compound List |
| Technical requirements | Technical Requirements for Site Remediation, NJAC 7:26E |
| TN | True North |
| TP | Trout Production |
| TPH | Total Petroleum Hydrocarbons |
| TSDF | Treatment, Storage, Disposal Facilitiy |
| USDA | United States Department of Agriculture |
| UL | Urban Land |
| US | United States |
| USEPA | United States Environmental Protection Agency |
| UST | Underground Storage Tank |
| VOCs | Volatile Organic Compounds |
| VO+10 | Volatile Organic Compounds With A Forward Library Search For 10 Tentatively Identified Compounds |

| | |
|---|---|
| VO+15 | Volatile Organic Compounds With A Forward Library Search For 15 Tentatively Identified Compounds |
| WWTP | Wastewater Treatment Plant |

# 1.0 INTRODUCTION

This Current Conditions Report/New Jersey Preliminary Assessment Report (CCR/NJPAR) presents a description of the current conditions, historical waste management practices, and release history at the General Motors Vehicle Manufacturing-Linden Assembly plant (GM-Linden Facility) in Linden, New Jersey. The Facility is located at 1016 West Edgar Road in Linden, New Jersey. An ongoing investigation is being overseen by the New Jersey Department of Environmental Protection (NJDEP). The NJDEP Case No. is 95-01-25-1618-35. The NJDEP required the GM-Linden Facility to perform a Preliminary Assessment (PA) and document the results in a NJPAR per NJAC 7:26E. This document serves as that NJPAR. NJDEP Case No. 89-03-10-1237 also applies to this Facility.

The United States Environmental Protection Agency (USEPA) requires the GM-Linden Facility (EPA ID# NJD002186690) to demonstrate compliance with the Environmental Indicators under the Corrective Action (CA) Program for the Resource Conservation and Recovery Act (RCRA). The first step under CA is preparation of a CCR. This document also serves as the CCR.

## 1.1 GENERAL

GM has been conducting environmental investigations at the GM-Linden Facility since 1989 to evaluate soil and groundwater quality from underground storage tanks (USTs) and general plant operations. In particular, since 1989, the following historical events and pertinent correspondence have occurred:

- 1989 - GM removed eight USTs that formerly contained petroleum products and initiated soil and groundwater investigation of this Area of Interest (AOI) under NJDEP's Underground Storage Tank Rules and Regulations (NJAC 7:9B). GM reported a discharge and NJDEP assigned Case No. 89-03-10-1237.
- 1990/1991 - GM submitted a UST-closure report to NJDEP and addendum documenting the UST closure activities, and soil and groundwater investigation results (2).
- 1994/1995 - GM submitted a Remedial Action Workplan (RAW) and addenda (3,4) to the NJDEP for the light, non-aqueous-phase liquid (LNAPL) and dissolved phase petroleum-related constituents discovered in the vicinity of the former USTs.
- 1995 - GM and NJDEP entered a Memorandum of Agreement (MOA) on February 27, 1995 for NJDEP oversight of GM's remediation activities associated with chlorinated volatile organic compounds (CVOCs) in groundwater. NJDEP assigned Case No. 95-01-25-1618-35.

A fracture trace analysis was conducted in the area to the west of the Facility where apparent lineaments related to bedrock structure were not completely obliterated by development. As a result of the construction, a detailed fracture trace analysis could not be conducted in substantial portions of the area surrounding the Facility, and no analysis could be conducted for the bedrock underlying the facility structures.

Suspected lineaments that were identified through review of the stereo aerial photographs (1959) are shown as solid lines on the aerial photograph. In addition to the stereo review, a review was made of the photographs to establish general trends in vegetation or drainage, which may reflect fracture zones. These trends are shown as dashed lines on the fracture trace map.

It is likely the fracture sets will impart significant anistropy with the highest zones of hydraulic conductivity located along the strike of the beds and the strike of the predominant fracture system. Therefore, groundwater flow in the bedrock beneath the GM-Linden Facility is likely influenced by these features and may trend from the northeast (TN) to the southwest (TN). The topographic position of a site is also likely to exert influence over groundwater flow. Because the GM-Linden Facility is not situated in an area of sloping topography, significant topographic influences on groundwater flow are not anticipated.

### 6.1.5 SOIL INVESTIGATION

Soil samples to investigate possible onsite sources of CVOCs were initially obtained during the monitoring well installation phase of the RI between June 29, 1995, and July 3, 1995. Five (5) soil samples were collected for analysis during the installation of the overburden wells (BEC-5D through BEC-9D) installed in the deep overburden. Additionally, a series of soil borings (SB-1 through SB-23) were installed in four areas of the GM-Linden Facility between October 7 and 15, 1996 to investigate potential source areas of chlorinated organic compounds. Soil samples were analyzed for VO+10.

Soil samples were obtained during drilling in accordance with the NJDEP protocol and the NJDEP *Field Sampling Procedures Manual* (May 1992). The samples were screened both visually and with a PID for evidence of contamination. The sample with the highest PID reading from each borehole was retained for analysis. At locations where PID readings were not above background, the interval immediately above the observed water table was retained.

Soil borings were advanced as part of the investigation work summarized in the March 1997 RIR within different areas of the Facility to investigate soil quality at:

The soil characterization data are compared with screening criteria derived from the risk-based preliminary remediation goals (PRGs) published by USEPA Region 9 (USEPA 2000). USEPA Region 9 calculates their risk-based PRGs using conservative standard default exposure factors for estimating high-end exposures of workers to soil in commercial/industrial settings, and target cancer risk and hazard quotient (HQ) of $10^{-6}$ and 1, respectively.

The standard default exposure factors used in the USEPA Region 9 risk-based PRGs are conservative assumptions about the magnitude, frequency, and duration of exposures, which in combination are intended to provide estimates of exposures that are higher than actual exposures to a large portion (90% to 99%) of the population. The target cancer risk of $10^{-6}$ is another conservative assumption embedded in the USEPA Region 9 PRGs, which assumes exposure to a large number of carcinogenic chemicals at a particular site. According to USEPA, a target risk of $10^{-6}$ can be used in developing screening criteria (like the PRGs) to ensure that cumulative cancer risk from exposure to multiple human carcinogens at a particular site would not exceed the acceptable limit of $10^{-4}$. This means that there can be as many as 100 human carcinogens at these PRGs at a site without exceeding the cumulative risk goal of $10^{-4}$.

At many sites, including this Facility, potential cancer risk is associated with far fewer human carcinogens (i.e., closer to 10 than 100) so that the PRGs calculated using a target cancer risk of $10^{-6}$ are far more conservative than necessary to protect for simultaneous exposures to multiple carcinogens. Therefore, the risk-based screening criteria used for identifying a potentially significant release at the Facility are PRGs that have been adjusted to a target cancer risk of $10^{-5}$ and a target HQ of 1. A potentially significant release is identified at an area when the highest concentrations of the constituents detected in soil at the area are higher than these screening criteria. It should be noted that an area with constituents at concentrations in soil that are higher than these screening criteria does not mean that it necessarily poses an unacceptable risk; it only means that the potential for the area to pose an unacceptable risk should be evaluated considering site-specific factors or further investigated.

Similarly, NJDEP has developed remediation criteria for selected compounds in soil based on residential and non-residential direct contact and to protect ground water quality. The basis for these values may be found in NJDEP-Basis Document for the proposed (but never finalized) Soil Cleanup Standards (NJAC 7:26D; 1992).

Table 6.2 shows the comparison of site-wide soil characterization data with the PRG-based and NJDEP screening criteria discussed above.

In 1995 and 1996, 24 soil borings were completed at the facility to collect samples in areas suspected of being potential source areas for chlorinated VOCs. Soils were screened with a PID for the presence of VOCs with suspect samples submitted for analysis of VO+10. The results of the sampling effort (Figure 6.1a and Table 6.2) indicated the presence of VOCs (benzene, toluene, xylene, ethylbenzene, and cis-1,2-dichloroethene) in soil at five boring locations (SB-3, SB-4, SB-8, SB-17, SB-18). However, these concentrations do not exceed the criteria.

#### 6.1.8.2 GROUNDWATER

In a manner similar to that discussed above for screening soil characterization data, the historical groundwater monitoring data are screened with generic risk-based screening criteria to identify whether a potentially significant release from an area to groundwater has occurred. The groundwater monitoring data are compared with screening criteria based on maximum contaminant levels (MCLs) established under the New Jersey Safe Drinking Water Act, the Federal Safe Drinking Water Act, and drinking water equivalent levels (DWELs) for constituents without MCLs. The DWELs are generic risk-based drinking water limits calculated using conservative standard default exposure factors for estimating high-end exposures via daily drinking water consumption, and target cancer risk and HQ of $10^{-5}$ and 1, respectively. In addition, groundwater monitoring data are compared to the New Jersey Groundwater Quality Standards for Class-IIA aquifers (classification for potable water use). A potentially significant release to groundwater is identified when the highest concentrations of constituents detected in a groundwater-monitoring well are higher than these screening criteria. Appendix N shows the comparison of site-wide groundwater characterization data with the USEPA and NJDEP screening criteria discussed above.

It should be noted that the groundwater screening criteria described above are designed to be protective of potential exposures via drinking water use and represent highly conservative screening criteria for evaluating groundwater that is not a current or reasonably expected future drinking water supply. Therefore, the presence of groundwater with constituent concentrations higher than these generic screening criteria does not mean that the groundwater necessarily poses an unacceptable risk; it only means that the potential for the groundwater to pose an unacceptable risk should be evaluated considering site-specific factors or further investigated. Table 6.3 shows the comparison of site-wide groundwater characterization data with the screening criteria discussed above.

Impacts to groundwater by chlorinated VOCs are present at the Facility. Impacts are present in both the overburden and bedrock flow units. Specific source areas or source operations for introduction of chlorinated organic solvents to the subsurface and

**TABLE 1.1**
**SUMMARY OF AOIs**
**GM-LINDEN, NJ**

| AOI NO. | DESCRIPTION | INFORMATION SOURCE |
|---|---|---|
| AOI 1 | FORMER RCRA CONTAINER STORAGE AREA No. 1 | RCRA CLOSURE DOCUMENTS<br>TELEPHONE CONVERSATION WITH NJDEP CASE MGR<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |
| AOI 2 | FORMER ABOVE GRADE PIPELINE BETWEEN PAINT MIX BUILDING AND POWERHOUSE | GM AND NJDEP DOCUMENTS<br>GM EMPLOYEE INTERVIEWS |
| AOI 3 | EXISTING DRUM STORAGE/FILL AREA | SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS<br>BELL 1997 RIR<br>EPI/PA |
| AOI 4 | FORMER ELPO ASTs | SANBORN MAPS<br>GM EMPLOYEE INTERVIEWS<br>SITE RECONNAISSANCE |
| AOI 5 | FORMER ELPO USTs | GM EMPLOYEE INTERVIEWS |
| AOI 6 | PAINT MIX BUILDING | RCRA CLOSURE DOCUMENTS<br>SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |
| AOI 7 | FORMER BULK FLUIDS AST FARM | SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |
| AOI 8 | FORMER POWERHOUSE HEATING OIL ASTs | SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS |
| AOI 9 | EXISTING BULK FLUIDS AST FARM | SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS |
| AOI 10 | FORMER STORAGE SHED | GM EMPLOYEE INTERVIEWS<br>HISTORIC AERIAL PHOTOS |
| AOI 11 | FORMER RECLAMATION AREA | GM EMPLOYEE INTERVIEWS |
| AOI 12 | HISTORIC PROCESS SEWER LINES | GM EMPLOYEE INTERVIEWS<br>REPORT DETAILING THE HISTORY OF GM, AUTHORED BY A FORMER GM EMPLOYEE |
| AOI 13 | WASTE WATER TREATMENT PLANT (WWTP) | RCRA CLOSURE DOCUMENTS<br>SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |
| AOI 14 | ROLL OFF STORAGE (WITHIN WWTP BUILDING) | RCRA CLOSURE DOCUMENTS<br>SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |

| | | |
|---|---|---|
| AOI 15 | FORMER RCRA CONTAINER STORAGE AREA No. 2 | RCRA CLOSURE DOCUMENTS<br>TELEPHONE CONVERSATION WITH NJDEP CASE MGR<br>GM EMPLOYEE INTERVIEWS<br>EPI/PA |
| AOI 16 | FORMER PETROLEUM USTs | MULTIPLE BELL REPORTS DATED 1989 THROUGH 1996<br>NJDEP CORRESPONDANCE<br>EPI/PA |
| AOI 17 | COMPANY CAR FUEL FILL POINT | GM EMPLOYEE INTERVIEWS<br>REFERENCE IN GM DPCC PLAN |
| AOI 18 | EXISTING STORM SEWER OUTFALL | GM EMPLOYEE INTERVIEWS<br>GM AND NJDEP RECORDS |
| AOI 19 | INCINERATOR | SITE RECONNAISSANCE<br>GM EMPLOYEE INTERVIEWS |
| AOI 20 | BONEYARD | HISTORIC AERIAL PHOTOS |
| AOI 21 | WASTE THINNER HANDLING AREA/FORMER POWER HOUSE | GM EMPLOYEE INTERVIEWS<br>GM AND NJDEP RECORDS |
| AOI 22 | RAILROAD WELLS WITHIN BUILDING INTERIOR | GM EMPLOYEE INTERVIEWS<br>SITE RECONNAISSANCE<br>GM AND NJDEP RECORDS |
| AOI 23 | FORMER INTERIOR TESTING PITS | HISTORIC SANBORN MAPS |
| AOI 24 | CENTRAL AND TUTONE SLUDGE AREAS | GM EMPLOYEE INTERVIEWS<br>SITE RECONNAISSANCE |

## TABLE 6.1
## SUMMARY OF PREVIOUS INVESTIGATION ACTIVITIES FOR EACH AREA OF INTEREST

**AOI 16:**

| INVESTIGATION REPORT | SUMMARY OF DATA |
|---|---|
| Underground Storage Tank Removal and Soil Excavation Program – May 1989 (BELL) | Subsequent to the removal of eight USTs and associated soil contamination, BELL obtained nine post-excavation (PE) soil samples along the sidewalls of the excavation (PE-1 through PE-4 and PE-7 through PE-11) and immediately above the saturated zone at the excavation bottom (PE-5 and PE-6). Samples were submitted for analysis of total petroleum hydrocarbons (TPH) and Volatile Organic Compounds (VOCs) plus fifteen unknown peaks (VO+15). Results indicated VO+15 and TPH levels below the NJDEP Impact to Groundwater Soil Cleanup Criteria (PE-5 and PE-6 exceeded IGWSCC for xylenes).<br><br>Due to the presence of soil contamination, GM notified the NJDEP of a discharge (NJDEP case number 89-03-10-1237) and was directed to undertake an investigation designed to comply with the NJDEP Discharge Investigation and Corrective Action Report (DICAR) Requirements |
| Discharge Investigation and Corrective Action Report (DICAR)– March 1990 (BELL) | In order to further delineate the VO+15 contamination detected in the previous sampling event, BELL installed four additional shallow exploratory groundwater monitoring wells (BEC-6S through BEC-9S) in the shallow overburden aquifer and two intermediate groundwater monitoring wells (BEC-1D and BEC-2D) screened in the deep overburden aquifer. Samples were obtained from groundwater monitoring wells (BEC-2S, BEC-3S, BEC-5S through BEC-9S, BEC-1D, and BEC-2D) for analysis of VO+15, BN+15, lead, and polychlorinated biphenyls (PCBs). These groundwater results indicated lead (BEC-2S, BEC-5S through BEC-8S, BEC-1D, and BEC-2D), 1,1- dichloroethene (BEC-9S), tetrachloroethene (BEC-9S), and trichloroethene (BEC-9S, BEC-1D, and BEC-2D) above the NJDEP Specific Groundwater Quality Criteria for Class II-A Groundwaters. LNAPL was present on the groundwater surface in BEC-1S. |

| | |
|---|---|
| Phase II DICAR – April 1991 (BELL) | Per NJDEP requirements, BELL completed five exploratory soil borings in the vicinity of the former UST excavation to assess the presence and/or migration of contaminants within the former excavation. Samples were submitted for analysis of VO+10. Results indicated no detected compounds.<br><br>BELL also installed four additional shallow exploratory groundwater-monitoring wells (BEC-10S through BEC-13S) and two additional deep overburden groundwater wells (BEC-3D and BEC-4D). Groundwater samples were obtained from all on-site monitoring wells, with the exception of BEC-1S (LNAPL layer detected at the water table), for analysis of VO+15 and BN+15. Results indicated benzene (BEC-5S), 1,2-dichloroethane (BEC-9S, BEC-1D and BEC-2D), trichloroethene (BEC-9S, BEC-1D, BEC-2D, and BEC-4D), 1,2-dichloroethane (BEC-1D and BEC-2), 1,1,1-trichloroethane (BEC-4D), chloroform (BEC-12S, BEC-3D, and BEC-4S), tetrachloroethene (BEC-1D and BEC-2D), and chlorobenzene (BEC-1D) above NJDEP Specific Groundwater Quality Criteria for Class II-A Groundwaters. |
| Remedial Action Workplans and Addendums – 1994, 1995, 1996 (BELL) | BELL prepared three RAW documents for recovery of free-product from monitoring well BEC-1S and a proposal for natural attenuation with a Classification Exception Area submittal for groundwater. BELL implemented free-product recovery using a passive hydrophobic recovery system as per the RAW. Free-product recovery was terminated once free-product was no longer being recovered. NJDEP issued a No Further Action approval letter for the petroleum hydrocarbon USTs in June 1996. |

| | |
|---|---|
| Remedial Investigation Report – March 1997 (BELL) | Remedial Investigation activities were conducted at the site to address environmental issues raised by NJDEP related to the presence of chlorinated organic compounds in the groundwater. Nine additional monitoring wells were installed in the deep overburden (Wells BEC-5D through BEC-9D) and shallow bedrock (BEC-1B through BEC-4B) at the site. Soil samples were collected and four piezometers were also installed. Remedial Investigation activities conducted from June 1995 through November 1996 investigated the presence and distribution of chlorinated organic compounds in the groundwater at the GM site. The investigation included soil sampling in potential areas where these compounds could be present and which could represent source areas for impacts to groundwater quality. |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| Sample Location: | | | | B-1 | B-2 | B-3 | B-4 | B-5 | BEC-5D | BEC-5D | BEC-6D | BEC-6D | BEC-7D | BEC-7D | BEC-8D | BEC-8D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-6001 | 89001-6002 | 89001-6003 | 89001-6004 | 89001-6005 | 93089-BEC5D | 93089-BEC5D | 93089-BEC6D | 93089-BEC6D | 93089-BEC7D | 93089-BEC7D | 93089-BEC8D | 93089-BEC8D |
| Sample Date: | | | | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 7/3/95 | 7/3/95 | 6/29/95 | 6/29/95 | 6/29/95 | 6/29/95 | 6/30/95 | 6/30/95 |
| Analysis Date: | | | | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 7/3/95 | 7/8/95 | 6/29/95 | 7/8/95 | 6/29/95 | 7/8/95 | 6/30/95 | 7/11/95 |
| Sample Depth: | | | | (9-11) | (11-13) | (5-7) | (9-11) | (11-13) | | | | | | | | |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | ND (25) | 6.8 JB | ND (25) | ND (25) | 6.2 JB | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Bromoform | ug/Kg | 312245.45 | 370000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | - | - | - | - | - | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | 1.4 B | - | 2.3 B | - | 1.9 B | - | 8.8 B |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | ND (50) | ND (50) | ND (50) | ND (50) | ND (50) | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) | - |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Toluene | ug/Kg | 1987470.14 | 1000000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Total VOCS | ug/Kg | - | - | ND | - | ND | ND | 6.2 | - | 1.4 | - | 2.3 | - | 1.9 | - | 8.8 |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| trans-1,3-Dichloropropene | ug/Kg | - | - | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Vinyl chloride | ug/Kg | 830 | 7000 | ND (50) | ND (50) | ND (50) | ND (50) | ND (50) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | - | ND (1.2) | - | ND (1.1) | - | ND (1.4) | - | ND (1.2) |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | 6.0 | - | 8.0 | - | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 10 | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 7.1 | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 52 |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | B-1 | B-2 | B-3 | B-4 | B-5 | BEC-5D | BEC-5D | BEC-6D | BEC-6D | BEC-7D | BEC-7D | BEC-8D | BEC-8D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 89001-6001 | 89001-6002 | 89001-6003 | 89001-6004 | 89001-6005 | 93089-BEC5D | 93089-BEC5D | 93089-BEC6D | 93089-BEC6D | 93089-BEC7D | 93089-BEC7D | 93089-BEC8D | 93089-BEC8D |
| *Sample Date:* | | | | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 7/3/95 | 7/3/95 | 6/29/95 | 6/29/95 | 6/29/95 | 6/29/95 | 6/30/95 | 6/30/95 |
| *Analysis Date:* | | | | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 11/14/90 | 7/3/95 | 7/8/95 | 6/29/95 | 7/8/95 | 6/29/95 | 7/8/95 | 6/30/95 | 7/11/95 |
| *Sample Depth:* | | | | (9-11) | (11-13) | (5-7) | (9-11) | (11-13) | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 19 | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 7.2 | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 9.3 | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 72.6 | 0 | 52 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | BEC-9D | BEC-9D | PE-02 | PE-02 | PE-02 | PE-03 | PE-03 | PE-03 | PE-04 | PE-04 | PE-04 | PE-05 | PE-05 | PE-05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-BEC9D | 93089-BEC9D | 89001-6002 | 89001-6002 | 89001-6002 | 89001-6003 | 89001-6003 | 89001-6003 | 89001-6004 | 89001-6004 | 89001-6004 | 89001-6005 | 89001-6005 | 89001-6005 |
| *Sample Date:* | | | | 6/30/95 | 6/30/95 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 |
| *Analysis Date:* | | | | 6/30/95 | 7/11/95 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | 21.0 | - | - | 16.0 | - | - | 9.0 | - | - | 1280.0 | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | - | ND (1.2) | - | - | ND (5.9) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | - | ND (1.2) | - | - | ND (5.9) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Bromoform | ug/Kg | 312245.45 | 370000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| cis-1,2-Dichloroethene | ug/Kg | 147353.84 | 1000000 | - | ND (1.2) | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | - | 3.1 B | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | ND (1.2) | - | ND (5.9) | - | - | ND (6) | - | - | ND (6.3) | - | - | ND (12350) | - | - |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Toluene | ug/Kg | 1987470.14 | 1000000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Total VOCS | ug/Kg | - | - | - | 3.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| trans-1,3-Dichloropropene | ug/Kg | - | - | - | ND (1.2) | - | - | ND (5.8) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | - | ND (1.2) | - | - | ND (5.9) | - | - | ND (6.0) | - | - | ND (6.3) | - | - | ND (12350) |
| Vinyl chloride | ug/Kg | 830 | 7000 | - | ND (1.2) | - | - | ND (11.6) | - | - | ND (12.0) | - | - | ND (12.6) | - | - | ND (24700) |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | - | ND (1.2) | - | - | ND (5800) | - | - | ND (6000) | - | - | ND (6300) | - | - | 116000 |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H16O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | BEC-9D | BEC-9D | PE-02 | PE-02 | PE-02 | PE-03 | PE-03 | PE-03 | PE-04 | PE-04 | PE-04 | PE-05 | PE-05 | PE-05 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-BEC9D | 93089-BEC9D | 89001-6002 | 89001-6002 | 89001-6002 | 89001-6003 | 89001-6003 | 89001-6003 | 89001-6004 | 89001-6004 | 89001-6004 | 89001-6005 | 89001-6005 | 89001-6005 |
| *Sample Date:* | | | | 6/30/95 | 6/30/95 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/13/89 |
| *Analysis Date:* | | | | 6/30/95 | 7/11/95 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/13/89 | 3/15/89 | 3/17/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| Sample Location: | | | | PE-06 | PE-06 | PE-06 | PE-07 | PE-07 | PE-07 | PE-07 | PE-07 | PE-01 | PE-01 | PE-01 | PE-08 | PE-08 | PE-08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-6006 | 89001-6006 | 89001-6006 | 89001-6007 | 89001-6007 | 89001-6007 | 89001-6013(DUP) | 89001-6013(DUP) | 89001-6001 | 89001-6001 | 89001-6001 | 89001-6008 | 89001-6008 | 89001-6008 |
| Sample Date: | | | | 3/13/89 | 3/13/89 | 3/13/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/20/89 | 3/20/89 | 3/20/89 |
| Analysis Date: | | | | 3/13/89 | 3/15/89 | 3/17/89 | 3/20/89 | 3/22/89 | 3/26/89 | 3/22/89 | 3/26/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/20/89 | 3/22/89 | 3/26/89 |
| Sample Depth: | | | | | | | | | | | | | | | | | |
| Parameters | Units | EPA a | NJ b | | | | | | | Duplicate | Duplicate | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Petroleum Products** | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | 1800.0 | - | - | 215.0 | - | 218.0 | - | - | 15.0 | - | - | 86.0 | - |
| **Volatiles** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.6) |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.6) |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Bromoform | ug/Kg | 312245.45 | 370000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 26000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | ND (30340) | - | - | ND (5.9) | - | - | - | - | ND (5.9) | - | - | ND (5.8) | - | - |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Toluene | ug/Kg | 1987470.14 | 1000000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Total VOCS | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| trans-1,3-Dichloropropene | ug/Kg | - | - | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.8) |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | - | - | ND (30340) | - | - | ND | - | ND (5.9) | - | - | ND (5.9) | - | - | ND (5.6) |
| Vinyl chloride | ug/Kg | 830 | 7000 | - | - | ND (60660) | - | - | ND | - | ND (11.8) | - | - | ND (11.8) | - | - | ND (11.6) |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | - | - | 191700 | - | - | ND | - | ND (5900) | - | - | ND (5900) | - | - | ND (5800) |
| **Volatile TICS** | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | PE-06 | PE-06 | PE-06 | PE-07 | PE-07 | PE-07 | PE-07 | PE-07 | PE-01 | PE-01 | PE-01 | PE-08 | PE-08 | PE-08 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 89001-6006 | 89001-6006 | 89001-6006 | 89001-6007 | 89001-6007 | 89001-6007 | 89001-6013(DUP) | 89001-6013(DUP) | 89001-6001 | 89001-6001 | 89001-6001 | 89001-6008 | 89001-6008 | 89001-6008 |
| *Sample Date:* | | | | 3/13/89 | 3/13/89 | 3/13/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/13/89 | 3/13/89 | 3/13/89 | 3/20/89 | 3/20/89 | 3/20/89 |
| *Analysis Date:* | | | | 3/13/89 | 3/15/89 | 3/17/89 | 3/20/89 | 3/22/89 | 3/26/89 | 3/22/89 | 3/26/89 | 3/13/89 | 3/15/89 | 3/17/89 | 3/20/89 | 3/22/89 | 3/26/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Duplicate | Duplicate | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | PE-09 | PE-09 | PE-09 | PE-10 | PE-10 | PE-10 | PE-11 | PE-11 | PE-11 | SB-01 | SB-01 | SB-01 | SB-01 | SB-01 | SB-02 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 89001-6009 | 89001-6009 | 89001-6009 | 89001-6010 | 89001-6010 | 89001-6010 | 89001-6011 | 89001-6011 | 89001-6011 | 87005-6001 | 93089-6001 | 93011-6107 | 93089-6101 | 93089-6101 | 87005-6002 |
| *Sample Date:* | | | | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 3/20/89 | 10/5/93 | 12/7/94 | 4/18/96 | 10/7/96 | 10/7/96 | 10/5/93 |
| *Analysis Date:* | | | | 3/20/89 | 3/22/89 | 3/26/89 | 3/20/89 | 3/22/89 | 3/26/89 | 3/20/89 | 3/22/89 | 3/26/89 | 10/5/93 | 12/7/94 | 4/18/96 | 10/7/96 | 10/20/96 | 10/5/93 |
| *Sample Depth:* | | | | | | | | | | | | | (3-4) | | (10.5-) | (11-13) | (11-13) | (3-4) |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | ND | ND (1.0) | - | - | - | ND |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | 98.0 | - | - | 258.0 | - | - | 160.0 | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | - | - | ND (5.8) | - | - | ND (5.6) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | - | - | ND (5.8) | - | - | ND (5.6) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Bromoform | ug/Kg | 312245.45 | 370000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | ND (6.0) | - |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | ND (6.0) | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | 11 B | - |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - | - | ND |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND | ND (6) | - | ND |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Toluene | ug/Kg | 1987470.14 | 1000000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Total VOCS | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | ND | - | - | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| trans-1,3-Dichloropropene | ug/Kg | - | - | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | - | - | ND (5.8) | - | - | ND (5.8) | - | - | ND (5.9) | - | - | ND | - | ND (6.0) | - |
| Vinyl chloride | ug/Kg | 830 | 7000 | - | - | ND (11.6) | - | - | ND (11.6) | - | - | ND (11.6) | - | - | ND | - | ND (6.0) | - |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | - | - | ND (5800) | - | - | ND (5800) | - | - | ND (5900) | - | - | - | - | ND (6.0) | - |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1400 | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dexahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | *PE-09* | *PE-09* | *PE-09* | *PE-10* | *PE-10* | *PE-10* | *PE-11* | *PE-11* | *PE-11* | *SB-01* | *SB-01* | *SB-01* | *SB-01* | *SB-01* | *SB-02* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *89001-6009* | *89001-6009* | *89001-6009* | *89001-6010* | *89001-6010* | *89001-6010* | *89001-6011* | *89001-6011* | *89001-6011* | *87005-6001* | *93089-6001* | *93011-6107* | *93089-6101* | *93089-6101* | *87005-6002* |
| *Sample Date:* | | | | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *3/20/89* | *10/5/93* | *12/7/94* | *4/18/96* | *10/7/96* | *10/7/96* | *10/5/93* |
| *Analysis Date:* | | | | *3/20/89* | *3/22/89* | *3/26/89* | *3/20/89* | *3/22/89* | *3/26/89* | *3/20/89* | *3/22/89* | *3/26/89* | *10/5/93* | *12/7/94* | *4/18/96* | *10/7/96* | *10/20/96* | *10/5/93* |
| *Sample Depth:* | | | | | | | | | | | | | *(3-4)* | | *(10.5-)* | *(11-13)* | *(11-13)* | *(3-4)* |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1400 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | *SB-02* | *SB-02* | *SB-02* | *SB-02* | *SB-03* | *SB-03* | *SB-03* | *SB-03* | *SB-03* | *SB-03* | *SB-03* | *SB-03* | *SB-04* | *SB-04* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *93089-6002* | *93011-6106* | *93089-6102* | *93089-6102* | *87005-6003* | *87005-6003* | *93089-6103* | *93011-6108* | *93089-6103a* | *93089-6103a* | *93089-6103b* | *93089-6103b* | *93011-6003* | *93089-6104* |
| *Sample Date:* | | | | *12/7/94* | *4/18/96* | *10/7/96* | *10/17/96* | *10/5/93* | *10/5/93* | *12/7/94* | *4/18/96* | *10/8/96* | *10/8/96* | *10/8/96* | *10/20/96* | *4/18/96* | *10/8/96* |
| *Analysis Date:* | | | | *12/7/94* | *4/18/96* | *10/7/96* | *10/17/96* | *10/5/93* | *10/5/93* | | *4/18/96* | *10/8/96* | *10/21/96* | *10/8/96* | *10/20/96* | *4/18/96* | *10/8/96* |
| *Sample Depth:* | | | | | *(10.5-)* | *(3-5)* | *(3-5)* | *(3-4)* | *(3-4)* | | *(10.5-)* | *(3-5)* | *(3-5)* | *(9-11)* | *(9-11)* | *(0-1)* | *(5-7)* |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | *Duplicate* | | | | | | | | |
| | | *a* | *b* | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | ND (1.0) | - | - | - | ND | ND | 13 | - | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| 2-Hexanone | ug/Kg | - | - | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| Benzene | ug/Kg | 1454.93 | 13000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Bromoform | ug/Kg | 312245.45 | 370000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | - | - | - | ND (140) | - | - | - | - | - | ND (1.4) | - | ND (1.2) | - | - |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| m&p-Xylene | ug/Kg | - | - | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | - | ND | - | ND (140) | - | - | - | ND | - | 3.8 B | - | 1.1 JB | ND | - |
| o-Xylene | ug/Kg | - | - | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | ND | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | - | ND | 20200 | - | ND | - | - | ND | ND (1.4) | - | ND (1.2) | - | ND | ND (1.2) |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Toluene | ug/Kg | 1987470.14 | 1000000 | - | ND | - | ND (140) | - | - | - | ND | - | 3.8 | - | ND (1.2) | ND | - |
| Total VOCS | ug/Kg | - | - | - | ND | - | - | - | - | - | ND | - | - | - | - | ND | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| trans-1,3-Dichloropropene | ug/Kg | - | - | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Trichloroethene | ug/Kg | 6136.22 | 54000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Vinyl chloride | ug/Kg | 830 | 7000 | - | ND | - | ND (140) | - | - | - | ND | - | ND (1.4) | - | ND (1.2) | ND | - |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | - | - | - | ND (140) | - | - | - | - | - | 3.1 | - | ND (1.2) | - | - |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | 8.5 | - | 69 | - | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H16O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | 1400 | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | 2200 | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer A | ug/Kg | - | - | - | - | - | 3000 | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | 2600 | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | 6200 | - | - | - | - | - | 17 | - | - | - | - |
| Naphthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | SB-02 | SB-02 | SB-02 | SB-02 | SB-03 | SB-03 | SB-03 | SB-03 | SB-03 | SB-03 | SB-03 | SB-03 | SB-04 | SB-04 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-6002 | 93011-6106 | 93089-6102 | 93089-6102 | 87005-6003 | 87005-6003 | 93089-6003 | 93011-6108 | 93089-6103a | 93089-6103a | 93089-6103b | 93089-6103b | 93011-6003 | 93089-6104 |
| *Sample Date:* | | | | 12/7/94 | 4/18/96 | 10/7/96 | 10/7/96 | 10/5/93 | 10/5/93 | 12/7/94 | 4/18/96 | 10/8/96 | 10/8/96 | 10/8/96 | 10/8/96 | 4/18/96 | 10/8/96 |
| *Analysis Date:* | | | | 12/7/94 | 4/18/96 | 10/7/96 | 10/17/96 | 10/5/93 | 10/5/93 | 12/7/94 | 4/18/96 | 10/8/96 | 10/21/96 | 10/8/96 | 10/20/96 | 4/18/96 | 10/8/96 |
| *Sample Depth:* | | | | | (10.5-) | (3-5) | (3-5) | (3-4) | (3-4) | | (10.5-) | (3-5) | (3-5) | (9-11) | (9-11) | (0-1) | (5-7) |
| | | | | | | | | | Duplicate | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 0 | 0 | 16300 | 0 | 0 | 0 | 0 | 0 | 25.5 | 0 | 69 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| Sample Location: | | | | SB-04 | SB-05 | SB-05 | SB-05 | SB-05 | SB-06 | SB-06 | SB-07 | SB-07 | SB-08 | SB-08 | SB-08 | SB-08 | SB-09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-6104 | 93089-6005 | 93011-6005 | 93089-6105 | 93089-6105 | 93089-6106 | 93089-6106 | 93089-6107 | 93089-6107 | 93089-6108a | 93089-6108a | 93089-6108b | 93089-6108b | 93089-6109 |
| Sample Date: | | | | 10/8/96 | 12/7/93 | 4/18/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 |
| Analysis Date: | | | | 10/20/96 | 12/7/93 | 4/18/96 | 10/9/96 | 10/18/96 | 10/9/96 | 10/22/96 | 10/9/96 | 10/21/96 | 10/9/96 | 10/18/96 | 10/9/96 | 10/21/96 | 10/9/96 |
| Sample Depth: | | | | (5-7) | | (0-1) | (3-5) | (3-5) | (7-9) | (7-9) | (29-31) | (29-31) | (5-7) | (5-7) | (27-29) | (27-29) | (7-9) |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | ND (1.2) | ND (4) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | ND (1.2) | ND (2) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | ND (1.2) | ND (2) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | ND (24) | ND | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | ND (30) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | ND (24) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | 1.6 | ND (1) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | ND (1.2) | - | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Bromoform | ug/Kg | 312245.45 | 370000 | ND (1.2) | ND (5) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | ND (1.2) | ND (5) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | ND (1.2) | - | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| m&p-Xylene | ug/Kg | - | - | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | ND (1.2) | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | 1.6 B | 2 J | ND | - | ND (160) | - | 1.5 B | - | 4.8 B | - | ND (160) | - | 5.3 B | - |
| o-Xylene | ug/Kg | - | - | - | ND (6) | ND | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | - | ND (20) | ND | ND (160) | - | ND (1.2) | - | ND (1.2) | - | 12600 | - | ND (1.2) | - | ND (1.2) |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | ND (1.2) | ND (1) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Toluene | ug/Kg | 1987470.14 | 1000000 | 2.3 | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Total VOCS | ug/Kg | - | - | - | 2 | ND | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| trans-1,3-Dichloropropene | ug/Kg | - | - | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | ND (1.2) | ND (1) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Vinyl chloride | ug/Kg | 830 | 7000 | ND (1.2) | ND (6) | ND | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (160) | - | ND (1.2) | - |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | 1.8 | - | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | 80 J | - | ND (1.2) | - |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | 25 | - | - | - | - | - | 61 | - | 53 | - | - | - | 970 | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 4000 | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 14000 | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 4700 | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 3400 | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 2500 | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 5700 | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 4100 | - | - | - |
| C9H18O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | 1400 | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | 800 | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | - | 5500 | - | - | - | - | - | - | - | - | - |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | SB-04 | SB-05 | SB-05 | SB-05 | SB-05 | SB-06 | SB-06 | SB-07 | SB-07 | SB-08 | SB-08 | SB-08 | SB-08 | SB-09 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-6104 | 93089-6005 | 93011-6005 | 93089-6105 | 93089-6105 | 93089-6106 | 93089-6106 | 93089-6107 | 93089-6107 | 93089-6108a | 93089-6108a | 93089-6108b | 93089-6108b | 93089-6109 |
| *Sample Date:* | | | | 10/8/96 | 12/7/93 | 4/18/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 |
| *Analysis Date:* | | | | 10/20/96 | 12/7/93 | 4/18/96 | 10/9/96 | 10/10/96 | 10/9/96 | 10/22/96 | 10/9/96 | 10/21/96 | 10/9/96 | 10/18/96 | 10/9/96 | 10/21/96 | 10/9/96 |
| *Sample Depth:* | | | | (5-7) | | (0-1) | (3-5) | (3-5) | (7-9) | (7-9) | (29-31) | (29-31) | (5-7) | (5-7) | (27-29) | (27-29) | (7-9) |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 7000 | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 3200 | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | 2400 | - | - | - |
| Total volatile TICS | ug/Kg | | | 25 | 0 | 0 | 0 | 7700 | 0 | 61 | 0 | 53 | 0 | 51000 | 0 | 970 | 0 |

TA[illegible]2

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| Sample Location: | | | | SB-09 | SB-10 | SB-10 | SB-10 | SB-12 | SB-12 | SB-13 | SB-13 | SB-13 | SB-13 | SB-16 | SB-16 | SB-17 | SB-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-6109 | 93089-6110a | 93089-6110a | 93089-6110b | 93089-6112 | 93089-6112 | 93089-6113a | 93089-6113a | 93089-6113b | 93089-6113b | 93089-6116 | 93089-6116 | 93089-6117 | 93089-6117 |
| Sample Date: | | | | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/11/96 | 10/11/96 | 10/11/96 | 10/11/96 |
| Analysis Date: | | | | 10/22/96 | 10/9/96 | 10/22/96 | 10/22/96 | 10/10/96 | 10/20/96 | 10/10/96 | 10/23/96 | 10/10/96 | 10/23/96 | 10/11/96 | 10/23/96 | 10/11/96 | 10/23/96 |
| Sample Depth: | | | | (7-9) | (15-17) | (15-17) | (19-21) | (6-8) | (6-8) | (8-10) | (8-10) | (14-16) | (14-16) | (6-8) | (6-8) | (7-9) | (7-9) |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 4.0 |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Bromoform | ug/Kg | 312245.45 | 370000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 9.2 |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 71 |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | ND (1.2) | - | 0.9 JB | - | - | ND (160) | - | 2.6 B | - | 2.5 B | - | 6.4 | - | 7.3 B |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | - | 10 | - | - | 124000 | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 10 | - |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Toluene | ug/Kg | 1987470.14 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 33 |
| Total VOCS | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| trans-1,3-Dichloropropene | ug/Kg | - | - | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Vinyl chloride | ug/Kg | 830 | 7000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | ND (2.5) |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | ND (1.2) | - | ND (1.2) | - | - | ND (160) | - | ND (1.2) | - | ND (1.2) | - | ND (1.1) | - | 320 |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | 46000 | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | 48000 | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | 14 | - | 610 | 640 | - | - | - | - | - | - | - | - | - | 15 |
| C5H12O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H16O Ketone A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 58 |
| C10H12 aromatic A | ug/Kg | - | - | - | - | 17 | - | - | 51000 | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | 73000 | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | 56000 | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | 51000 | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | 11 | - | - | - | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | 37000 | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | 36000 | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | 16 | - | - | - | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | 11 | - | - | 48000 | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | 18 | - | - | - | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | 14 | - | - | - | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | 66000 | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 50 |
| Methylnaphthalene isomer A | ug/Kg | - | - | - | - | 12 | - | - | - | - | - | - | - | - | - | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene A | ug/Kg | - | - | 6.2 | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | 23 | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | SB-09 | SB-10 | SB-10 | SB-10 | SB-12 | SB-12 | SB-13 | SB-13 | SB-13 | SB-13 | SB-16 | SB-16 | SB-17 | SB-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-6109 | 93089-6110a | 93089-6110a | 93089-6110b | 93089-6112 | 93089-6112 | 93089-6113a | 93089-6113a | 93089-6113b | 93089-6113b | 93089-6116 | 93089-6116 | 93089-6117 | 93089-6117 |
| *Sample Date:* | | | | 10/9/96 | 10/9/96 | 10/9/96 | 10/9/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/10/96 | 10/11/96 | 10/11/96 | 10/11/96 | 10/11/96 |
| *Analysis Date:* | | | | 10/22/96 | 10/9/96 | 10/22/96 | 10/22/96 | 10/10/96 | 10/20/96 | 10/10/96 | 10/23/96 | 10/10/96 | 10/23/96 | 10/11/96 | 10/23/96 | 10/11/96 | 10/23/96 |
| *Sample Depth:* | | | | (7-9) | (15-17) | (15-17) | (19-21) | (6-8) | (6-8) | (8-10) | (8-10) | (14-16) | (14-16) | (6-8) | (6-8) | (7-9) | (7-9) |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | 19 | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 56 |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25 |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 20.2 | 0 | 751 | 640 | 0 | 514000 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 240 |

*Notes:*

| | |
|---|---|
| J | Estimated value |
| B | < CRDL but >= lnsth |
| ND | Non-detect at associ |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| Sample Location: | | | | SB-18 | SB-18 | SB-18 | SB-18 | SB-23 | SB-23 |
|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-6118a | 93089-6118a | 93089-6118b | 93089-6118b | 93089-6123 | 93089-6123 |
| Sample Date: | | | | 10/11/96 | 10/11/96 | 10/11/96 | 10/11/96 | 10/15/96 | 10/15/96 |
| Analysis Date: | | | | 10/11/96 | 10/24/96 | 10/11/96 | 10/23/96 | 10/15/96 | 10/25/96 |
| Sample Depth: | | | | (9-11) | (9-11) | (11-13) | (11-13) | (6-8) | (6-8) |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | |
| ***Metals*** | | | | | | | | | |
| Lead | mg/Kg | 750 | 600 | - | - | - | - | - | - |
| ***Petroleum Products*** | | | | | | | | | |
| Total Petroleum Hydrocarbons | mg/Kg | - | - | - | - | - | - | - | - |
| ***Volatiles*** | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/Kg | 3215687.81 | 1000000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| 1,1,2-Trichloroethane | ug/Kg | 1901.54 | 420000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| 1,1-Dichloroethane | ug/Kg | 2061342.61 | 1000000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| 1,1-Dichloroethene | ug/Kg | 118.70 | 150000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| 1,2-Dichlorobenzene | ug/Kg | 3320151.02 | 10000000 | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/Kg | 764.81 | 24000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| 1,3-Dichlorobenzene | ug/Kg | 51755.44 | 10000000 | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/Kg | 8128.69 | 10000000 | - | - | - | - | - | - |
| 2-Hexanone | ug/Kg | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/Kg | 2886852.93 | 1000000 | - | - | - | - | - | - |
| Acetone | ug/Kg | 6219622.78 | 1000000 | - | - | - | - | - | - |
| Benzene | ug/Kg | 1454.93 | 13000 | - | 0.8 J | - | 9.2 | - | ND (1.2) |
| Bromodichloromethane | ug/Kg | 2357.29 | 46000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Bromoform | ug/Kg | 312245.45 | 370000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Carbon disulfide | ug/Kg | 1208831.87 | - | - | - | - | - | - | - |
| Chlorobenzene | ug/Kg | 542926.75 | 680000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Chloroform (Trichloromethane) | ug/Kg | 521.01 | 28000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| cis-1,2-Dichloroethene | ug/Kg | 147355.84 | 1000000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Ethylbenzene | ug/Kg | 5973247.27 | 1000000 | - | ND (1.2) | - | 4.0 | - | ND (1.2) |
| m&p-Xylene | ug/Kg | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/Kg | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/Kg | 20526.15 | 210000 | - | 3.0 B | - | 4.8 B | - | 2.7 B |
| o-Xylene | ug/Kg | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/Kg | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/Kg | - | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) | - |
| Tetrachloroethene | ug/Kg | 18666.92 | 6000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Toluene | ug/Kg | 1987470.14 | 1000000 | - | 0.9 J | - | 2.6 | - | ND (1.2) |
| Total VOCS | ug/Kg | - | - | - | - | - | - | - | 2.7 |
| trans-1,2-Dichloroethene | ug/Kg | 214152.32 | 1000000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| trans-1,3-Dichloropropene | ug/Kg | - | - | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Trichloroethene | ug/Kg | 6116.22 | 54000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Vinyl chloride | ug/Kg | 830 | 7000 | - | ND (1.2) | - | ND (1.3) | - | ND (1.2) |
| Xylene (total) | ug/Kg | 4453346.87 | 1000000 | - | ND (1.2) | - | 7.8 | - | ND (1.2) |
| ***Volatile TIC'S*** | | | | | | | | | |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/Kg | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer B | ug/Kg | - | - | - | - | - | - | - | - |
| Acetone A | ug/Kg | - | - | - | 7.0 | - | 9.2 | - | - |
| C5H12O Alcohol A | ug/Kg | - | - | - | 6.6 | - | - | - | - |
| C6H14O Alcohol A | ug/Kg | - | - | - | 6.9 | - | - | - | - |
| C8H16 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - |
| C8H16 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - |
| C9H18 Cycloalkane B | ug/Kg | - | - | - | - | - | - | - | - |
| C9H10 aromatic A | ug/Kg | - | - | - | - | - | - | - | - |
| C9H20 Alkane A | ug/Kg | - | - | - | - | - | - | - | - |
| C9H20 Alkane B | ug/Kg | - | - | - | - | - | - | - | - |
| C9H18 Hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - |
| C9H18O Ketone A | ug/Kg | - | - | - | - | - | - | - | - |
| C10H12 aromatic A | ug/Kg | - | - | - | - | - | - | - | - |
| C10H14 aromatic A | ug/Kg | - | - | - | - | - | - | - | - |
| C10H14 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - |
| C10H16 Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - |
| C10H20 Cycloalkane A | ug/Kg | - | - | - | - | - | - | - | - |
| C11H14 Aromatic/Unknown Alkane | ug/Kg | - | - | - | - | - | - | - | - |
| C11H16 Aromatic/coeluting hydrocarbon | ug/Kg | - | - | - | - | - | - | - | - |
| C11H24 Alkane A | ug/Kg | - | - | - | - | - | - | - | - |
| C11H24 Alkane/C10H14 Aromatic | ug/Kg | - | - | - | - | - | - | - | - |
| C12H16 Aromatic | ug/Kg | - | - | - | - | - | - | - | - |
| C12H26 Alkane | ug/Kg | - | - | - | - | - | - | - | - |
| C14H30 Alkane | ug/Kg | - | - | - | - | - | - | - | - |
| Decahydronaphthalene Isomer A | ug/Kg | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene A | ug/Kg | - | - | - | - | - | - | - | - |
| Dimethylnaphthalene B | ug/Kg | - | - | - | - | - | - | - | - |
| Ethyldimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - |
| Methylnaphthalene isomer A | ug/Kg | - | - | - | - | - | 6.4 | - | - |
| Methylnaphthalene Isomer B | ug/Kg | - | - | - | - | - | 7.2 | - | - |
| Naphthalene A | ug/Kg | - | - | - | - | - | 7.2 | - | - |
| Napthalene/C13H28 Alkane | ug/Kg | - | - | - | - | - | - | - | - |

T[illegible]2

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - SOILS
## LINDEN, NJ

| *Sample Location:* | | | | SB-18 | SB-18 | SB-18 | SB-18 | SB-23 | SB-23 |
|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-6118a | 93089-6118a | 93089-6118b | 93089-6118b | 93089-6123 | 93089-6123 |
| *Sample Date:* | | | | 10/11/96 | 10/11/96 | 10/11/96 | 10/11/96 | 10/15/96 | 10/15/96 |
| *Analysis Date:* | | | | 10/11/96 | 10/24/96 | 10/11/96 | 10/23/96 | 10/15/96 | 10/25/96 |
| *Sample Depth:* | | | | (9-11) | (9-11) | (11-13) | (11-13) | (6-8) | (6-8) |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | |
| | | a | b | | | | | | |
| Propane, 2-methoxy-2-methyl | ug/Kg | - | - | - | 57 | - | 36 | - | - |
| Tetrahydromethylnaphthalene isomer A | ug/Kg | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/Kg | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer B | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown A | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown B | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown C | ug/Kg | - | - | - | - | - | 17 | - | - |
| Unknown D | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/Kg | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon C | ug/Kg | - | - | - | - | - | - | - | - |
| Total volatile TICS | ug/Kg | | | 0 | 77.5 | 0 | 63 | 0 | 0 |

ument Detection Limit (IDL)
ated level

*Notes:*

| | |
|---|---|
| J | Estimated value |
| B | < CRDL but >= Instrument Detection Limit (IDL) |
| ND | Non-detect at associated level |
| a | EPA Screening Criteria |
| b | New Jersey - Non-Residential Direct Contact Soil Cleanup Criteria (NRDCSCC) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-1B | BEC-1B | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1S | BEC-1S | BEC-1S | BEC-1S | BEC-1SR | BEC-1SR | BEC-1SR | BEC-2B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 2310 | 2310 | 2010 | 89001-2014 | 89001-2010 | 93089-2302A | 93089-2302A | 2001 | 89001-2001 | 93089-2201 | 93089-2201 | 93089-2401 | 93089-2401 | 93089-2401 | 2311 |
| Sample Date: | | | | 8/9/95 | 8/9/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/16/95 | 11/8/90 | 12/12/90 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 |
| Analysis Date: | | | | 8/9/95 | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/16/95 | 11/8/90 | 12/12/90 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 |
| Sample Depth: | | | | | | | | | | | | | | | | | | |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | 0.001 | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | 0.03 | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | - | 0.11 [ab] | - | - | - | - | - | 0.0198 [ab] | - | 0.0067 | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | 0.11 | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | 4.6 J* | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | - | ND (10.0) | - | - | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | ND (10) | 4.6 J* | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Fluorene | ug/L | 1460 | 300 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Naphthalene | ug/L | 300 | 300 | - | - | 0.40 J | ND (10) | ND (10.0) | - | - | ND (10) | 2.3 J | - | - | - | - | - | - |
| Phenanthrene | ug/L | 1095 | 100 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Pyrene | ug/L | 1095 | 200 | - | - | ND (10) | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | 5 | 5 | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | 10 | 9 | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | 37 | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | 5 | - | - | - | 8 | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | 44 | - | - | - | 8 | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | 5 | 8 | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 54 | 0 | 0 | 0 | 36 | 65 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | ND (2.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | - | ND (0.2) | - |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | ND (4.3) | 3.6 J [ab] | ND (5.0) | ND (5.0) | - | ND (0.4) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | - | ND (0.4) | - |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | ND (3.1) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | - | ND (0.3) | - |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | ND (5.5) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | ND (5.0) | ND (5.0) | - | ND (0.6) | - | - | ND (0.6) | - |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | ND (2.2) | 30 [ab] | 53 [ab] | ND (5.0) | - | 25 [ab] | ND (5.0) | ND (5.0) | - | ND (0.2) | - | - | ND (0.2) | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | - | 180 [ab] | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | 2.8 J [ab] | 2.6 J [ab] | - | 1.8 [ab] | - | - | ND (0.2) | - |
| Bromodichloromethane | ug/L | 80 | 1 | - | ND (1.9) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | - | ND (0.2) | - |
| Bromoform | ug/L | 80 | 4 | - | 11 [b] | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | - | ND (0.3) | - |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | - | 12 | 3.4 J | 6.5 | ND (5.0) | - | 4.7 | ND (5.0) | ND (5.0) | - | ND (0.1) | - | - | ND (0.1) | - |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | 33 [b] | 3.7 J | 2.8 J | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | - | ND (0.2) | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1D | BEC-1S | BEC-1S | BEC-1S | BEC-1S | BEC-1SR | BEC-1SR | BEC-1SR | BEC-2D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 2310 | 2310 | 2010 | 89001-2014 | 89001-2010 | 93089-2302A | 93089-2302A | 2001 | 89001-2001 | 93089-2201 | 93089-2201 | 93089-2401 | 93089-2401 | 93089-2401 | 2311 |
| *Sample Date:* | | | | 8/9/95 | 8/9/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/10/95 | 11/8/90 | 12/12/90 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 |
| *Analysis Date:* | | | | 8/9/95 | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/16/95 | 11/8/90 | 12/12/90 | 4/20/95 | 4/20/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | | |
| ***Parameters*** | ***Units*** | ***EPA*** | ***NJ*** | | | | | | | | | | | | | | | |
| | - | a | b | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | 36 | - | - | - | - | 23 | - | - | - | ND (1.0) | - | - | ND (1.0) | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | ND (2.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | - | 10 | - | - | 1.7 | - |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | ND (10) | - | - | - | - | ND (1.0) | - | - | - | - | - | - | ND (1.0) | - |
| Methylene chloride | ug/L | 3 | 3 | - | ND (10) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | - | - | ND (1.0) | - |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | ND (10) | ND (10) | ND (10) | - | - | ND (10) | ND (10) | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (10) | - | ND (10) | ND (10) | ND (10) | ND (1) | - | 20 | 320 | 10 | - | 3.3 | - | - | ND (2.1) |
| Tetrachloroethene | ug/L | 1 | 1 | - | ND (1.0) | 11 * | 14 * | ND (5.0) | - | 8.3 * | ND (5.0) | ND (5.0) | - | ND (0.1) | - | - | ND (0.1) | - |
| Toluene | ug/L | 1000 | 1000 | - | ND (1.8) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | - | 0.5 | - | - | 0.5 | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | - | ND | - | - | - | - | ND | - | - | - | - | 30.2 | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | 18 | 36 | 48 | ND (5.0) | - | 4.9 | ND (5.0) | ND (5.0) | - | ND (0.3) | - | - | ND (0.3) | - |
| trans-1,3-Dichloropropene | ug/L | - | - | - | ND (3.1) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | - | ND (0.3) | - |
| Trichloroethene | ug/L | 1 | 1 | - | 490 * | 300 * | 430 * | 11.3 * | - | 260 * | ND (5.0) | ND (5.0) | - | ND (0.4) | - | - | ND (0.4) | - |
| Vinyl chloride | ug/L | 2 | 5 | - | ND (3.9) | ND (10) | ND (10) | ND (10.0) | - | ND (0.4) | ND (10) | ND (10) | - | ND (0.4) | - | - | ND (0.4) | - |
| Xylene (total) | ug/L | 1000 | 1000 | - | ND (10) | 6.9 | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | - | 14 | - | - | 28 | - |
| ***Volatile TICS*** | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexdiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | 20 | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hipten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 12 | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | | 9.2 | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 3.9 | - | - | 3.3 | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | 6.9 | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-1B* | *BEC-1B* | *BEC-1D* | *BEC-1D* | *BEC-1D* | *BEC-1D* | *BEC-1D* | *BEC-1S* | *BEC-1S* | *BEC-1S* | *BEC-1S* | *BEC-1SR* | *BEC-1SR* | *BEC-1SR* | *BEC-2B* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 2310 | 2310 | 2010 | 89001-2014 | 89001-2010 | 93089-2302A | 93089-2302A | 2001 | 89001-2001 | 93089-2201 | 93089-2201 | 93089-2401 | 93089-2401 | 93089-2401 | 2311 |
| *Sample Date:* | | | | 8/8/95 | 8/9/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/10/95 | 11/8/90 | 12/12/90 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 |
| *Analysis Date:* | | | | 8/9/95 | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 | 8/16/95 | 11/8/90 | 12/12/90 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | 70 | - | - | - | - | 21 | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 5.6 | - | - | 12 | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | 5.5 | | | 9.6 | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | 92 | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | 15 | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | 34 | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | 7.5 | | | 22 | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | 3.8 | | | 3.2 | |
| Unknown A | ug/L | - | - | - | - | 10 | - | - | - | - | 10 | 21 | - | 4.4 | - | - | 4.7 | - |
| Unknown B | ug/L | - | - | - | - | 8 | - | - | - | - | - | 33 | - | 3.8 | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | 9.0 | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C6H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | 59 | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | 43 | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | 20 | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 3.8 | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 70 | 56 | 15 | 0 | 0 | 21 | 19 | 321 | 0 | 57.2 | 0 | 0 | 64 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-2B | BEC-2D | BEC-2D | BEC-2D | BEC-2D | BEC-2D | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 2311 | 2011 | 89001-2015 | 89001-2011 | 93089-2302 | 93089-2302 | 89001-03-2002 | 89001-03-2002 | 89001-03-2002 | 89001-03-2006 | 89001-03-2006 | 89001-2002 | 89001-2005 |
| Sample Date: | | | | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 12/15/90 | 12/15/90 |
| Analysis Date: | | | | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/15/95 | 9/1/89 | 9/5/89 | 9/11/89 | 9/6/89 | 9/11/89 | 12/15/90 | 12/15/90 |
| Sample Depth: | | | | | | | | | | | | | | | | |
| Parameters | Units | EPA a | NJ b | | | | | | | | | | Duplicate | Duplicate | | Duplicate |
| **Metals** | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | 0.01 | - | - | - | - | - | - | - | ND (0.01) | ND (0.01) |
| Copper | mg/L | 1.3 | 1 | - | - | - | 0.01 | - | - | - | - | - | - | - | ND (0.01) | ND (0.01) |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | 0.05 [ab] | - | - | - | - | - | - | - | 0.04 [ab] | 0.04 [ab] |
| Zinc | mg/L | 10.95 | 5 | - | - | - | ND (0.01) | - | - | - | - | - | - | - | ND (0.01) | ND (0.01) |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | ND (10.0) | - | - | - | - | - | - | - | ND (10.0) | ND (10.0) |
| Acenaphthene | ug/L | 2190 | 400 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Anthracene | ug/L | 10950 | 2000 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | - | - | - | ND (10.0) | ND (10.0) |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | 0.39 J [a] | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | 7 BJ | - | 8 BJ | ND (10.0) | ND (10.0) |
| Fluoranthene | ug/L | 1460 | 300 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Fluorene | ug/L | 1460 | 300 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Naphthalene | ug/L | 300 | 300 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Phenanthrene | ug/L | 1095 | 100 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Pyrene | ug/L | 1095 | 200 | - | ND (10) | ND (40) | ND (10.0) | - | - | - | - | ND (10) | - | ND (10.0) | ND (10.0) | ND (10.0) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | 8 | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | 4 | 16 | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | 33 | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 45 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | ND (0.9) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.9) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | 7.3 [ab] | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.1) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | ND (5) | - | ND (5.0) | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | 4.8 [ab] | 8.6 [ab] | 16 [ab] | ND (5.0) | - | 22 [ab] | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | ND (5) | - | ND (5.0) | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | ND (5) | - | ND (5.0) | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | ND (0.5) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.5) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Bromodichloromethane | ug/L | 80 | 1 | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Bromoform | ug/L | 80 | 4 | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | 8.2 | ND (5.0) | 2.3 J | ND (5.0) | - | 5.0 | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | 7.0 [b] | 1.4 J | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (2) | - | ND (2.0) | - | ND (5.0) | ND (5.0) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-2B* | *BEC-2D* | *BEC-2D* | *BEC-2D* | *BEC-2D* | *BEC-2D* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 2311 | 2011 | 89001-2015 | 89001-2011 | 93089-2302 | 93089-2302 | 89001-03-2002 | 89001-03-2002 | 89001-03-2002 | 89001-03-2006 | 89001-03-2006 | 89001-2002 | 89001-2005 |
| *Sample Date:* | | | | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 12/15/90 | 12/15/90 |
| *Analysis Date:* | | | | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/15/95 | 9/1/89 | 9/5/89 | 9/1/89 | 9/6/89 | 9/1/89 | 12/15/90 | 12/15/90 |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | *Duplicate* | *Duplicate* | | *Duplicate* |
| | | a | b | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | 39 | - | - | - | - | 15 | - | - | - | - | - | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 4 J | - | - |
| Ethylbenzene | ug/L | 700 | 700 | ND (0.5) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.5) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | ND (2.0) | - | - | - | - | ND (2.0) | - | - | - | - | - | - | - |
| Methylene chloride | ug/L | 3 | 3 | ND (2.1) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (2.1) | - | 4 JB[ab] | - | 19 B[ab] | - | ND (5.0) | ND (5.0) |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | ND (10) | ND (40) | ND (10) | - | - | ND (10) | - | - | - | - | ND (10) | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | - | ND (10) | ND (40) | ND (10) | ND (2.1) | - | 10 | - | - | - | - | ND (10) | - |
| Tetrachloroethene | ug/L | 1 | 1 | ND (0.2) | 1.4 J[ab] | 2.1 J[ab] | ND (5.0) | - | 3.6[ab] | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Toluene | ug/L | 1000 | 1000 | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | 2.2 | 7.9 | 12 | ND (5.0) | - | 6.4 | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| trans-1,3-Dichloropropene | ug/L | - | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | - | - | - | - | - | ND (5.0) | ND (5.0) |
| Trichloroethene | ug/L | 1 | 1 | 230[ab] | 70[ab] | 95[ab] | 12.3[ab] | - | 160[ab] | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| Vinyl chloride | ug/L | 2 | 5 | ND (0.8) | ND (10) | ND (10) | ND (10.0) | - | ND (0.8) | - | ND (10) | - | ND (10.0) | - | ND (10.0) | ND (10.0) |
| Xylene (total) | ug/L | 1000 | 1000 | ND (2.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (2.0) | - | ND (5) | - | ND (5.0) | - | ND (5.0) | ND (5.0) |
| *Volatile TICS* | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexdiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 3 J | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-2B | BEC-2D | BEC-2D | BEC-2D | BEC-2D | BEC-2D | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 2311 | 2011 | 89001-2015 | 89001-2011 | 93089-2302 | 93089-2302 | 89001-03-2002 | 89001-03-2002 | 89001-03-2002 | 89001-03-2006 | 89001-03-2006 | 89001-2002 | 89001-2005 |
| *Sample Date:* | | | | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 9/1/89 | 12/15/90 | 12/15/90 |
| *Analysis Date:* | | | | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/15/95 | 9/1/89 | 9/5/89 | 9/11/89 | 9/6/89 | 9/11/89 | 12/15/90 | 12/15/90 |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | *Duplicate* | *Duplicate* | | *Duplicate* |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 6 J | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 14 J | - | - |
| Ether A | ug/L | - | - | - | - | 8.5 | - | - | 29 | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 8.5 | 0 | 0 | 29 | 0 | 0 | 0 | 0 | 23 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-3D | BEC-3D | BEC-3D | BEC-3D | BEC-3D | BEC-3S | BEC-3S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2100 | 93089-2202 | 93089-2202 | 93089-2402 | 93089-2402 | 93089-2402 | 2312 | 2312 | 89001-2016 | 93089-2303 | 93089-2303 | 89001-03-2003 | 89001-03-2003 |
| Sample Date: | | | | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 | 8/8/95 | 12/12/90 | 8/10/95 | 8/10/95 | 9/1/89 | 9/1/89 |
| Analysis Date: | | | | 4/20/94 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 | 8/12/95 | 12/12/90 | 8/10/95 | 8/16/95 | 9/1/89 | 9/6/89 |
| Sample Depth: | | | | | | | | | | | | | | | | |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | 0.056 [ab] | - | 0.0268 [ab] | - | 0.0522 [ab] | - | - | - | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | ND (5) | - | - | - | - | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | ND (5) | - | - | - | - | - | - | - | 0.15 J | - | - | - | - |
| Fluorene | ug/L | 1460 | 300 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | - | - |
| Naphthalene | ug/L | 300 | 300 | ND (5) | - | - | - | - | - | - | - | 0.44 J | - | - | - | - |
| Phenanthrene | ug/L | 1095 | 100 | ND (5) | - | - | - | - | - | - | - | 0.33 J | - | - | - | - |
| Pyrene | ug/L | 1095 | 200 | ND (5) | - | - | - | - | - | - | - | 0.35 J | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | ND (5.0) | - | ND (0.2) | - | ND (167) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | ND (3) | - | ND (0.4) | - | - | ND (0.4) | - | ND (0.4) | ND (5.0) | - | ND (0.4) | - | ND (167) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | ND (5.0) | - | ND (0.3) | - | ND (167) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | ND (2) | - | ND (0.6) | - | - | ND (0.6) | - | ND (0.6) | ND (5.0) | - | 0.6 | - | ND (167) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | - | - | - | - | - | - | - | - | - | - | - | ND (167) |
| 1,2-Dichloroethane | ug/L | 2 | 2 | ND (2) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | 16 [ab] | - | 9.0 [ab] | - | ND (167) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | - | - | - | - | - | - | - | - | - | - | - | ND (167) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (5) | - | - | - | - | - | - | - | - | - | - | - | ND (167) |
| 2-Hexanone | ug/L | - | 100 | ND (20) | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | ND (25) | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | 21 | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | ND (1) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | ND (5.0) | - | ND (0.2) | - | 380 [ab] |
| Bromodichloromethane | ug/L | 80 | 1 | - | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | 3.9 J [b] | - | ND (0.2) | - | ND (167) |
| Bromoform | ug/L | 80 | 4 | ND (4) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | ND (5.0) | - | ND (0.3) | - | ND (167) |
| Carbon disulfide | ug/L | 3650 | 800 | ND (5) | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | ND (4) | - | ND (0.1) | - | - | ND (0.1) | - | ND (0.1) | ND (5.0) | - | 16 | - | ND (167) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | 26 [b] | - | 2.5 | - | ND (167) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-2S* | *BEC-3H* | *BEC-3H* | *BEC-3D* | *BEC-3D* | *BEC-3D* | *BEC-3S* | *BEC-3S* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *93089-2100* | *93089-2202* | *93089-2202* | *93089-2402* | *93089-2402* | *93089-2402* | *2312* | *2312* | *89001-2016* | *93089-2303* | *93089-2303* | *89001-03-2003* | *89001-03-2003* |
| *Sample Date:* | | | | *4/20/94* | *4/20/95* | *4/20/95* | *3/12/96* | *3/12/96* | *3/12/96* | *8/8/95* | *8/8/95* | *12/12/90* | *8/10/95* | *8/10/95* | *9/1/89* | *9/1/89* |
| *Analysis Date:* | | | | *4/20/94* | *4/20/95* | *5/1/95* | *3/12/96* | *3/13/96* | *3/25/96* | *8/8/95* | *8/12/95* | *12/12/90* | *8/10/95* | *8/16/95* | *9/1/89* | *9/6/89* |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | ND (1.0) | - | - | ND (1.0) | - | 4.9 | - | - | 30 | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | 2.5 J | - | ND (0.2) | - | ND (167) |
| m&p-Xylene | ug/L | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | ND (5) | - | - | - | - | ND (1.0) | - | ND (1.0) | - | - | ND (1.0) | - | - |
| Methylene chloride | ug/L | 3 | 3 | ND (2) | - | ND (1.0) | - | - | ND (1.0) | - | ND (1.0) | ND (5.0) | - | ND (1.0) | - | 752 B[ab] |
| o-Xylene | ug/L | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | ND (5) | - | - | - | - | - | - | - | ND (10) | - | - | ND (10) | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (20) | ND (1) | - | ND (1) | - | - | ND (1) | - | 20 | ND (1) | - | 20470 | - |
| Tetrachloroethene | ug/L | 1 | 1 | ND (1) | - | ND (0.1) | - | - | ND (0.1) | - | ND (0.1) | ND (5.0) | - | 3.3[ab] | - | ND (167) |
| Toluene | ug/L | 1000 | 1000 | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | 0.4 | 1.2 J | - | ND (0.2) | - | 3000[ab] |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | 21 | - | - | - | - | ND | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | 12 | - | 7.6 | - | ND (167) |
| trans-1,3-Dichloropropene | ug/L | - | - | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | ND (5.0) | - | ND (0.3) | - | - |
| Trichloroethene | ug/L | 1 | 1 | ND (1) | - | ND (0.4) | - | - | ND (0.4) | - | 22[ab] | ND (5.0) | - | 100[ab] | - | ND (167) |
| Vinyl chloride | ug/L | 2 | 5 | ND (5) | - | ND (0.4) | - | - | ND (0.4) | - | ND (0.4) | ND (10) | - | 1.3 | - | ND (333) |
| Xylene (total) | ug/L | 1000 | 1000 | - | - | ND (1.0) | - | - | ND (1.0) | - | ND (1.0) | 19 | - | ND (1.0) | - | 4760[ab] |
| *Volatile TIC'S* | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 21 J |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 3800 |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 2400 |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1000 |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1300 |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indan-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indan-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indan-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1100 |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Heptene-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | 3.6 | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 940 |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 820 |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 470 |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 990 |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1200 |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 76 J |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1500 |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 920 |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1100 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-2S | BEC-3B | BEC-3B | BEC-3D | BEC-3D | BEC-3D | BEC-3S | BEC-3S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2100 | 93089-2202 | 93089-2202 | 93089-2402 | 93089-2402 | 93089-2402 | 2312 | 2312 | 89001-2016 | 93089-2303 | 93089-2303 | 89001-03-2003 | 89001-03-2003 |
| *Sample Date:* | | | | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 | 8/8/95 | 12/12/90 | 8/10/95 | 8/10/95 | 9/1/89 | 9/1/89 |
| *Analysis Date:* | | | | 4/20/94 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 | 8/12/95 | 12/12/90 | 8/10/95 | 8/16/95 | 9/1/89 | 9/6/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 34 | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | 3.6 | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | 7.9 | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1100 |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1200 |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.59999905 | 11.5 | 0 | 34 | 0 | 19937 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-4B | BEC-4B | BEC-4D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-03-2003 | 2003 | 89001-2003 | 89001-2003 | 93089-2101 | 93089-2103 | 93089-2205 | 93089-2205 | 93089-2403 | 93089-2403 | 93089-2403 | 2313 | 2313 | 89001-2017 |
| Sample Date: | | | | 9/1/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 | 8/8/95 | 12/12/90 |
| Analysis Date: | | | | 9/11/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 | 8/16/95 | 12/12/90 |
| Sample Depth: | | | | | | | | | | | | | | | | | |
| | | | | | | | | | Duplicate | | | | | | | | |
| **Parameters** | **Units** | **EPA** a | **NJ** b | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | 0.04 [ab] | 0.054 [ab] | 0.056 [ab] | - | 0.037 [ab] | - | 0.0987 [ab] | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Anthracene | ug/L | 10950 | 2000 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Di-n-butylphthalate | ug/L | 3650 | 900 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Fluoranthene | ug/L | 1460 | 300 | 2 J | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | 0.14 J |
| Fluorene | ug/L | 1460 | 300 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | ND (10) | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Naphthalene | ug/L | 300 | 300 | 120 | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Phenanthrene | ug/L | 1095 | 100 | 2 J | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | ND (10) |
| Pyrene | ug/L | 1095 | 200 | 2 J | ND (15) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | - | - | - | - | - | - | 0.14 J |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | -- | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (2.0) | 52 [ab] |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (3) | ND (3) | - | ND (0.4) | - | - | ND (0.4) | - | ND (4.3) | ND (5.0) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (3.1) | ND (5.0) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (2) | ND (2) | - | ND (0.6) | - | - | ND (0.6) | - | ND (5.5) | ND (5.0) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (2) | ND (2) | - | ND (0.2) | - | - | ND (0.2) | - | ND (2.2) | ND (5.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | ND (20) | ND (20) | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | ND (25) | ND (25) | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | ND (20) | ND (20) | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (1) | ND (1) | - | ND (0.2) | - | - | ND (0.2) | - | 300 [ab] | ND (5.0) |
| Bromodichloromethane | ug/L | 80 | 1 | - | ND (5.0) | ND (5.0) | ND (5.0) | - | - | - | ND (0.2) | - | - | ND (0.2) | - | ND (1.9) | ND (5.0) |
| Bromoform | ug/L | 80 | 4 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (4) | ND (4) | - | ND (0.3) | - | - | ND (0.3) | - | ND (3.0) | ND (5.0) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (4) | ND (4) | - | ND (0.1) | - | - | ND (0.1) | - | 350 [ab] | ND (5.0) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | 47 [b] | 21 [b] |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-4B | BEC-4B | BEC-4D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-03-2003 | 2003 | 89001-2003 | 89001-2003 | 93089-2101 | 93089-2103 | 93089-2205 | 93089-2205 | 93089-2403 | 93089-2403 | 93089-2403 | 2313 | 2313 | 89001-2017 |
| Sample Date: | | | | 9/1/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 | 8/8/95 | 12/12/90 |
| Analysis Date: | | | | 9/11/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 | 8/14/95 | 12/12/90 |
| Sample Depth: | | | | | | | | | | | | | | | | | |
| | | | | | | | | | Duplicate | | | | | | | | |
| Parameters | Units | EPA a | NJ b | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | - | - | - | - | - | ND (1.0) | - | - | ND (1.0) | - | 140 ab | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (2.4) | ND (5.0) |
| m&p-Xylene | ug/L | - | - | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | - | - | - | ND (5) | ND (5) | - | - | - | - | ND (1.0) | - | ND (10) | - |
| Methylene chloride | ug/L | 3 | 3 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (2) | ND (2) | - | ND (1.0) | - | - | ND (1.0) | - | 62 ab | ND (5.0) |
| o-Xylene | ug/L | - | - | - | - | - | - | ND (5) | ND (5) | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | ND (10) | ND (10) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | ND (10) |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | - | ND (10) | ND (10) | ND (10) | ND (20) | - | 5.6 | - | ND (1) | - | - | ND (10) | - | 30 |
| Tetrachloroethene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (1) | ND (1) | - | ND (0.1) | - | - | ND (0.1) | - | 24 ab | ND (5.0) |
| Toluene | ug/L | 1000 | 1000 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (1.8) | 88 |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | ND | - | 30 | ND (28) | - | - | - | - | ND | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | 59 | ND (5.0) |
| trans-1,3-Dichloropropene | ug/L | - | - | - | ND (5.0) | ND (5.0) | ND (5.0) | ND (5) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (3.1) | ND (5.0) |
| Trichloroethene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (5.0) | 30 ab | 28 ab | - | ND (0.4) | - | - | ND (0.4) | - | 1100 ab | 1.4 J ab |
| Vinyl chloride | ug/L | 2 | 5 | - | ND (10) | ND (10) | ND (10.0) | ND (5) | ND (5) | - | ND (0.4) | - | - | ND (0.4) | - | 34 ab | ND (10) |
| Xylene (total) | ug/L | 1000 | 1000 | - | ND (5.0) | ND (5.0) | ND (5.0) | - | - | - | ND (1.0) | - | - | ND (1.0) | - | ND (10) | ND (5.0) |
| **Volatile TICS** | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | 12 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | 65 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 99 | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | 14 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | 60 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | 64 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | 84 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexene, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | 46 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | 10 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | 37 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 11 |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | 10 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | 86 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 10 |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-3S | BEC-4B | BEC-4B | BEC-4D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 89001-03-2003 | 2003 | 89001-2003 | 89001-2003 | 93089-2101 | 93089-2103 | 93089-2205 | 93089-2205 | 93089-2403 | 93089-2403 | 2313 | 2313 | 2313 | 89001-2017 |
| *Sample Date:* | | | | 9/1/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 8/8/95 | 8/8/95 | 12/12/90 |
| *Analysis Date:* | | | | 9/11/89 | 11/8/90 | 12/12/90 | 12/15/90 | 4/20/94 | 4/20/94 | 4/20/95 | 5/1/95 | 3/12/96 | 3/13/96 | 3/25/96 | 8/8/95 | 8/14/95 | 12/12/90 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| | | | | | | | | | *Duplicate* | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 47 | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 730 | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 17 |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 12 |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | 20 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | 10 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | 8.2 | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 13 |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | 14 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | 16 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | 25 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | 12 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | 5.6 | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | 6.0 | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | 54 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 639 | 8.199999809 | 0 | 0 | 0 | 0 | 0 | 11.6 | 0 | 0 | 0 | 0 | 876 | 63 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-4D | BEC-4D | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-5D | BEC-5D | BEC-5S | BEC-5S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2304 | 93089-2304 | 89001-03-2004 | 89001-03-2004 | 89001-03-2004 | 2004 | 89001-2004 | 93089-2314 | 93089-2314 | 93089-2305 | 93089-2305 | 89001-03-2005 | 89001-03-2005 |
| Sample Date: | | | | 8/10/95 | 8/10/95 | 9/1/89 | 9/1/89 | 9/13/89 | 11/8/90 | 12/12/90 | 8/10/95 | 8/10/95 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 |
| Analysis Date: | | | | 8/10/95 | 8/16/95 | 9/1/89 | 9/5/89 | | 11/8/90 | 12/12/90 | 8/10/95 | 8/16/95 | 8/9/95 | 8/15/95 | 9/1/89 | 9/6/89 |
| Sample Depth: | | | | | | | | | | | | | | | | |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | - | - | - | - | ND (15) | ND (10) | - | - | - | - | - | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Fluorene | ug/L | 1460 | 300 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Naphthalene | ug/L | 300 | 300 | - | - | - | - | 2 J | ND (15) | ND (10) | - | - | - | - | - | - |
| Phenanthrene | ug/L | 1095 | 100 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Pyrene | ug/L | 1095 | 200 | - | - | - | - | ND (10.0) | ND (15) | ND (10) | - | - | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | 6 J | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | 16 J | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | 11 J | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | 12 J | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | 5 J | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | 8 J | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | 13 J | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | 11 J | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | 7 J | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | 6 J | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | 6 J | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | 7 J | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | 17 J | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | 26 J | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | 8 J | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | 7 J | - | 10 | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | 9 J | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | 7 J | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | 9 J | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | 34 J | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 225 | 0 | 10 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | 8.0 | - | 9 | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | - | ND (5.0) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | ND (0.4) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (0.9) | - | ND (5.0) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | ND (0.3) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | - | ND (5.0) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | ND (0.6) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.6) | - | ND (1.1) | - | ND (5.0) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | ND (5.0) | - | - | - | - | - | - | - | - | ND (5.0) |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | ND (0.2) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | 12 ab | - | ND (5.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | ND (5.0) | - | - | - | - | - | - | - | - | ND (5.0) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | 433 ab | - | - | - | - | - | - | - | - | ND (5.0) |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | - | ND (0.2) | - | 20 ab | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.5) | - | 11 ab |
| Bromodichloromethane | ug/L | 80 | 1 | - | ND (0.2) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | - | ND (5.0) |
| Bromoform | ug/L | 80 | 4 | - | ND (0.3) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | - | ND (5.0) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | - | ND (0.1) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.1) | - | 9.0 | - | ND (5.0) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | 1.8 | - | ND (2.0) | - | ND (5.0) | 1.3 J | - | ND (0.2) | - | 3.1 | - | ND (2.0) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-4D | BEC-4D | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-5D | BEC-5D | BEC-5S | BEC-5S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2304 | 93089-2304 | 89001-03-2004 | 89001-03-2004 | 89001-03-2004 | 2004 | 89001-2004 | 93089-2314 | 93089-2314 | 93089-2305 | 93089-2305 | 89001-03-2005 | 89001-03-2005 |
| *Sample Date:* | | | | 8/10/95 | 8/10/95 | 9/1/89 | 9/1/89 | 9/1/89 | 11/8/90 | 12/12/90 | 8/10/95 | 8/10/95 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 |
| *Analysis Date:* | | | | 8/10/95 | 8/16/95 | 9/1/89 | 9/5/89 | 9/13/89 | 11/8/90 | 12/12/90 | 8/10/95 | 8/16/95 | 8/9/95 | 8/15/95 | 9/1/89 | 9/6/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | ND (1.0) | - | - | - | - | - | - | ND (1.0) | - | 18 | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | ND (0.2) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.5) | - | ND (5.0) |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | ND (1.0) | - | - | - | - | - | - | ND (1.0) | - | ND (2.0) | - | - |
| Methylene chloride | ug/L | 3 | 3 | - | ND (1.0) | - | 8 B[illegible] | - | ND (5.0) | ND (5.0) | - | ND (1.0) | - | ND (2.1) | - | ND (4.0) |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | ND (10) | - | - | ND (10) | ND (10) | - | - | - | - | ND (10) | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (1) | - | 760 | - | - | ND (10) | ND (10) | ND (1) | - | ND (2.1) | - | 960 | - |
| Tetrachloroethene | ug/L | 1 | 1 | - | 0.2 | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.1) | - | 6.0[illegible] | - | ND (5.0) |
| Toluene | ug/L | 1000 | 1000 | - | ND (0.2) | - | 1 J | - | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | - | 2 J |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | - | - | - | - | ND | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | ND (0.3) | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.3) | - | 5.0 | - | ND (5.0) |
| trans-1,3-Dichloropropene | ug/L | - | - | - | ND (0.3) | - | - | - | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | - | - |
| Trichloroethene | ug/L | 1 | 1 | - | 7.5[illegible] | - | ND (5.0) | - | ND (5.0) | ND (5.0) | - | ND (0.4) | - | 120[illegible] | - | ND (5.0) |
| Vinyl chloride | ug/L | 2 | 5 | - | ND (0.4) | - | ND (10.0) | - | ND (10) | ND (10) | - | ND (0.4) | - | ND (0.8) | - | ND (10.0) |
| Xylene (total) | ug/L | 1000 | 1000 | - | ND (1.0) | - | 7 | - | ND (5.0) | ND (5.0) | - | ND (1.0) | - | ND (2.0) | - | 5 |
| *Volatile TICS* | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 20 |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 46 |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | 26 | - | - | - | - | - | - | - | - | 25 |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | 42 | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | 19 | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 48 |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | 22 | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | 44 | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 28 |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | 120 | - | - | - | - | - | - | - | - | 170 |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hiptem-2-one A | ug/L | - | - | - | - | - | 25 | - | - | - | - | - | - | - | - | 64 |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | 17 | - | - | - | - | - | - | - | - | 34 |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 14 |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 38 |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | 45 | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | 16 | - | - | - | - | - | - | - | - | 45 |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | 19 | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-4D | BEC-4D | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-4S | BEC-5D | BEC-5D | BEC-5S | BEC-5S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2304 | 93089-2304 | 89001-03-2004 | 89001-03-2004 | 89001-03-2004 | 2004 | 89001-2004 | 93089-2314 | 93089-2314 | 93089-2305 | 93089-2305 | 89001-03-2005 | 89001-03-2005 |
| *Sample Date:* | | | | 8/10/95 | 8/10/95 | 9/1/89 | 9/1/89 | 9/13/89 | 11/8/90 | 12/12/90 | 8/10/95 | 8/16/95 | 8/9/95 | 8/9/95 | 9/1/89 | 9/1/89 |
| *Analysis Date:* | | | | 8/10/95 | 8/16/95 | 9/1/89 | 9/5/89 | 9/13/89 | 11/8/90 | 12/12/90 | 8/10/95 | 8/16/95 | 8/9/95 | 8/15/95 | 9/1/89 | 9/6/89 |
| *Sample Depth:* | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | 26 | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 19 |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | 25 | - | - | - | - | - | - | - | - | 48 |
| Indane A | ug/L | - | - | - | - | - | 48 | - | - | - | - | - | - | - | - | 75 |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | 26 | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | 51 | - | - | - | - | - | - | - | - | 24 |
| Unknown B | ug/L | - | - | - | - | - | 72 | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 0 | 591 | 0 | 26 | 0 | 0 | 0 | 0 | 26 | 0 | 698 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-6D | BEC-6D | BEC-6S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-03-2005 | 2005 | 89001-2005 | 93089-2102 | 93089-2203 | 93089-2203 | 93089-2404 | 93089-2404 | 93089-2404 | 93089-2405DUP | 93089-2405DUP | 2306 | 2306 | 2006 |
| Sample Date: | | | | 9/1/89 | 11/8/90 | 12/12/90 | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 3/12/96 | 3/12/96 | 8/9/95 | 8/9/95 | 11/8/90 |
| Analysis Date: | | | | 9/11/89 | 11/8/90 | 12/12/90 | 4/20/94 | 4/20/95 | 5/2/95 | 3/12/96 | 3/13/96 | 3/25/96 | 3/13/96 | 3/25/96 | 8/9/95 | 8/14/95 | 11/8/90 |
| Sample Depth: | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | Duplicate | Duplicate | | | |
| **Parameters** | **Units** | **EPA a** | **NJ b** | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | 0.044 [illegible] | - | 0.0527 [illegible] | - | 0.0109 [illegible] | - | 0.0145 [illegible] | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Anthracene | ug/L | 10950 | 2000 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | ND (10.0) | ND (30) | 4.8 J | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Di-n-butylphthalate | ug/L | 3650 | 900 | 6 BJ | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Fluoranthene | ug/L | 1460 | 300 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Fluorene | ug/L | 1460 | 300 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Naphthalene | ug/L | 300 | 300 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Phenanthrene | ug/L | 1095 | 100 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Pyrene | ug/L | 1095 | 200 | ND (10.0) | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Total Targeted Compounds | ug/L | -- | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatile TICS*** | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***Volatiles*** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | ND (5.0) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | ND (5.0) | ND (5.0) | ND (3) | - | ND (0.4) | - | - | ND (0.4) | - | ND (0.4) | - | ND (0.4) | ND (5.0) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | ND (5.0) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | ND (5.0) | ND (5.0) | ND (2) | - | ND (0.6) | - | - | ND (0.6) | - | ND (0.6) | - | ND (0.6) | ND (5.0) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | ND (5.0) | ND (5.0) | ND (2) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | 1.2 | ND (5.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | 1 J | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | ND (20) | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | ND (25) | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | 9 J | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (1) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | ND (5.0) |
| Bromodichloromethane | ug/L | 80 | 1 | - | ND (5.0) | ND (5.0) | - | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | ND (5.0) |
| Bromoform | ug/L | 80 | 4 | - | ND (5.0) | ND (5.0) | ND (4) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | ND (5.0) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | - | ND (5.0) | ND (5.0) | ND (4) | - | ND (0.1) | - | - | ND (0.1) | - | ND (0.1) | - | 1.7 | ND (5.0) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | ND (5.0) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-5S* | *BEC-6D* | *BEC-6D* | *BEC-6S* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *89001-03-2005* | *2005* | *89001-2005* | *93089-2102* | *93089-2203* | *93089-2203* | *93089-2404* | *93089-2404* | *93089-2404* | *93089-2405DUP* | *93089-2405DUP* | *2306* | *2306* | *2006* |
| *Sample Date:* | | | | *9/11/89* | *11/8/90* | *12/12/90* | *4/20/94* | *4/20/95* | *4/20/95* | *3/12/96* | *3/12/96* | *3/12/96* | *3/12/96* | *3/12/96* | *8/9/95* | *8/9/95* | *11/8/90* |
| *Analysis Date:* | | | | *9/11/89* | *11/8/90* | *12/12/90* | *4/20/94* | *4/20/95* | *5/2/95* | *3/12/96* | *3/13/96* | *3/25/96* | *3/13/96* | *3/25/96* | *8/9/95* | *8/14/95* | *11/8/90* |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | *Duplicate* | *Duplicate* | | | |
| | | *a* | *b* | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | - | - | - | ND (1.0) | - | - | ND (1.0) | - | ND (1.0) | - | 2.8 | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.2) | - | - | 0.4 | - | 0.4 | - | ND (0.2) | ND (5.0) |
| m&p-Xylene | ug/L | - | - | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | - | - | ND (5) | - | - | - | - | ND (1.0) | - | ND (1.0) | - | ND (1.0) | - |
| Methylene chloride | ug/L | 3 | 3 | - | ND (5.0) | ND (5.0) | ND (2) | - | ND (1.0) | - | - | ND (1.0) | - | ND (1.0) | - | ND (1.0) | ND (5.0) |
| o-Xylene | ug/L | - | - | - | - | - | ND (5) | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | ND (30) | ND (10) | ND (5) | - | - | - | - | - | - | - | - | - | ND (10) |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | - | ND (30) | ND (10) | ND (20) | 40 | - | ND (1) | - | - | - | - | ND (1) | - | ND (10) |
| Tetrachloroethene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (1) | - | ND (0.1) | - | - | ND (0.1) | - | ND (0.1) | - | 0.7 | ND (5.0) |
| Toluene | ug/L | 1000 | 1000 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.2) | - | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | ND (5.0) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | ND | 10 | - | - | - | - | 0.4 | - | 0.4 | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | - | 0.7 | ND (5.0) |
| trans-1,3-Dichloropropene | ug/L | - | - | - | ND (5.0) | ND (5.0) | ND (5) | - | ND (0.3) | - | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | ND (5.0) |
| Trichloroethene | ug/L | 1 | 1 | - | ND (5.0) | ND (5.0) | ND (1) | - | ND (0.4) | - | - | ND (0.4) | - | ND (0.4) | - | 12 * | ND (5.0) |
| Vinyl chloride | ug/L | 2 | 5 | - | ND (10) | ND (10) | ND (5) | - | ND (0.4) | - | - | ND (0.4) | - | ND (0.4) | - | ND (0.4) | ND (10) |
| Xylene (total) | ug/L | 1000 | 1000 | - | ND (5.0) | ND (5.0) | - | - | ND (1.0) | - | - | ND (1.0) | - | ND (1.0) | - | ND (1.0) | ND (5.0) |
| *Volatile TICS* | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | 7 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | 9 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | 7 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | 7 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | 13 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | 12 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | 6 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | 20 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | 6 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | 9 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | 12 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | 13 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | 7.6 | | | 3.8 | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | 13 | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | 10 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | 7 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | 4.2 | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | 7.5 | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | 6.2 | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | 9.9 | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | 9.2 | - | - | 9.6 | - | 8.0 | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | 10 | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | 17 | - | - | 3.5 | - | 3.4 | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | 5.7 | | 6.3 | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | 3.3 | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | 9.5 | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-5S | BEC-6D | BEC-6D | BEC-6S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | #9001-03-2005 | 2005 | 89001-2005 | 93089-2102 | 93089-2203 | 93089-2203 | 93089-2404 | 93089-2404 | 93089-2404 | 93089-2405DUP | 93089-2405DUP | 2306 | 2306 | 2006 |
| *Sample Date:* | | | | 9/1/89 | 11/8/90 | 12/12/90 | 4/20/94 | 4/20/95 | 4/20/95 | 3/12/96 | 3/12/96 | 3/12/96 | 3/12/96 | 3/12/96 | 8/9/95 | 8/9/95 | 11/8/90 |
| *Analysis Date:* | | | | 9/11/89 | 11/8/90 | 12/12/90 | 4/20/94 | 4/20/95 | 5/2/95 | 3/12/96 | 3/13/96 | 3/25/96 | 3/13/96 | 3/25/96 | 8/9/95 | 8/14/95 | 11/8/90 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | *Duplicate* | *Duplicate* | | | |
| | | a | b | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | 3.2 | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | 16 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 4.0 | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| IH-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | 33 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | 7 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 9.7 |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | 10 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | 6 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | 5 J | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | 10 | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | 8.6 | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 215 | 0 | 0 | 0 | 0 | 101 | 0 | 0 | 38.6 | 0 | 21.9 | 0 | 4 | 9.7 |

TABLE 3

## ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-6S | BEC-6S | BEC-7D | BEC-7D | BEC-7S | BEC-7S | BEC-7S | BEC-7S | BEC-7S | BEC-8D | BEC-8D | BEC-8S | BEC-8S | BEC-8S | BEC-8S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 89001-2006 | 89001-2006 | 2307 | 2307 | 2007 | 89001-2007 | 89001-2007 | 93089-2315 | 93089-2315 | 2308 | 2308 | 2008 | 89001-2008 | 89001-2008 | 93089-2316 |
| Sample Date: | | | | 12/12/90 | 12/15/90 | 8/8/95 | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/9/95 | 8/8/95 | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 |
| Analysis Date: | | | | 12/12/90 | 12/15/90 | 8/8/95 | 8/11/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/15/95 | 8/8/95 | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 |
| Sample Depth: | | | | | | | | | | | | | | | | | | |
| **Parameters** | **Units** | **EPA** a | **NJ** b | | | | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | ND (0.01) | - | - | - | - | 0.01 | - | - | - | - | - | - | ND (0.01) | - |
| Copper | mg/L | 1.3 | 1 | - | ND (0.01) | - | - | - | - | ND (0.01) | - | - | - | - | - | - | ND (0.01) | - |
| Lead | mg/L | 0.015 | 0.01 | - | 0.04 [ab] | - | - | - | - | 0.06 [ab] | - | - | - | - | - | - | 0.05 [ab] | - |
| Zinc | mg/L | 10.95 | 5 | - | ND (0.01) | - | - | - | - | 0.02 | - | - | - | - | - | - | 0.01 | - |
| ***Semi-Volatiles*** | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | ND (10.0) | - | - | - | - | ND (10.0) | - | - | - | - | - | - | ND (10.0) | - |
| Acenaphthene | ug/L | 2190 | 400 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Anthracene | ug/L | 10950 | 2000 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Fluoranthene | ug/L | 1460 | 300 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Fluorene | ug/L | 1460 | 300 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Naphthalene | ug/L | 300 | 300 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Phenanthrene | ug/L | 1095 | 100 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Pyrene | ug/L | 1095 | 200 | ND (10) | ND (10.0) | - | - | ND (10) | ND (10) | ND (10.0) | - | - | - | - | ND (10) | ND (10) | ND (10.0) | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatile TICS*** | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | 130 | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | 42 | - | - | - | - | - | 6 | 5 | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | 6 | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 130 | 42 | 0 | 0 | 0 | 0 | 0 | 12 | 5 | 0 | 0 |
| ***Volatiles*** | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | ND (5.0) | ND (5.0) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | ND (0.9) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| 1,1-Dichloroethane | ug/L | 50 | 50 | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| 1,1-Dichloroethene | ug/L | 2 | 2 | ND (5.0) | ND (5.0) | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | - | 3.7 [ab] | ND (5.0) | ND (5.0) | ND (5.0) | - |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.5) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Bromodichloromethane | ug/L | 80 | 1 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Bromoform | ug/L | 60 | 4 | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | ND (5.0) | ND (5.0) | - | ND (0.1) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.1) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-6S | BEC-6S | BEC-7D | BEC-7D | BEC-7S | BEC-7S | BEC-7S | BEC-7S | BEC-7S | BEC-8D | BEC-8D | BEC-8S | BEC-8S | BEC-8S | BEC-8S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 89001-2006 | 89001-2006 | 2307 | 2307 | 2007 | 89001-2007 | 89001-2007 | 93089-2315 | 93089-2315 | 2308 | 2308 | 2008 | 89001-2008 | 89001-2008 | 93089-2316 |
| *Sample Date:* | | | | 12/12/90 | 12/15/90 | 8/8/95 | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/9/95 | 8/8/95 | 8/8/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 |
| *Analysis Date:* | | | | 12/12/90 | 12/15/90 | 8/8/95 | 8/11/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/9/95 | 8/15/95 | 8/8/95 | 8/12/95 | 11/8/90 | 12/12/90 | 12/15/90 | 8/10/95 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | - | ND (1.0) | - | - | - | - | ND (1.0) | - | 8.0 | - | - | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | 2.3 J | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.5) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | - | - | ND (1.0) | - | - | - | - | ND (1.0) | - | ND (2.0) | - | - | - | - |
| Methylene chloride | ug/L | 3 | 3 | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | - | ND (2.1) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | ND (10) | ND (10) | - | - | ND (10) | ND (10) | ND (10) | - | - | - | - | ND (10) | ND (10) | ND (10) | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (10) | ND (10) | ND (1) | - | 130 | ND (10) | ND (10) | ND (1) | - | ND (2.1) | - | ND (10) | ND (10) | ND (10) | ND (1) |
| Tetrachloroethene | ug/L | 1 | 1 | ND (5.0) | ND (5.0) | - | ND (0.1) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.1) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Toluene | ug/L | 1000 | 1000 | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | ND | - | - | - | - | ND | - | - | - | - | - | - | ND | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| trans-1,3-Dichloropropene | ug/L | - | - | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | - | ND (0.6) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Trichloroethene | ug/L | 1 | 1 | ND (5.0) | ND (5.0) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | - | 200 ab | ND (5.0) | ND (5.0) | ND (5.0) | - |
| Vinyl chloride | ug/L | 2 | 5 | ND (10) | ND (10.0) | - | ND (0.4) | ND (10) | ND (10) | ND (10.0) | - | ND (0.4) | - | ND (0.8) | ND (10) | ND (10) | ND (10.0) | - |
| Xylene (total) | ug/L | 1000 | 1000 | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | - | ND (2.0) | ND (5.0) | ND (5.0) | ND (5.0) | - |
| *Volatile TIC'S* | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexdiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hipten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | | | |
| C9H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-6S* | *BEC-6S* | *BEC-7D* | *BEC-7D* | *BEC-7S* | *BEC-7S* | *BEC-7S* | *BEC-7S* | *BEC-7S* | *BEC-8D* | *BEC-8D* | *BEC-8S* | *BEC-8S* | *BEC-8S* | *BEC-8S* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *89001-2006* | *89001-2006* | *2307* | *2307* | *2007* | *89001-2007* | *89001-2007* | *93089-2315* | *93089-2315* | *2308* | *2308* | *2008* | *89001-2008* | *89001-2008* | *93089-2316* |
| *Sample Date:* | | | | *12/12/90* | *12/15/90* | *8/8/95* | *8/8/95* | *11/8/90* | *12/12/90* | *12/15/90* | *8/9/95* | *8/8/95* | *8/8/95* | *8/8/95* | *11/8/90* | *12/12/90* | *12/15/90* | *8/10/95* |
| *Analysis Date:* | | | | *12/12/90* | *12/15/90* | *8/8/95* | *8/11/95* | *11/8/90* | *12/12/90* | *12/15/90* | *8/9/95* | *8/15/95* | *8/8/95* | *8/12/95* | *11/8/90* | *12/12/90* | *12/15/90* | *8/10/95* |
| *Sample Depth:* | | | | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | 23 | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.5 | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 6.5 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-8S | BEC-9D | BEC-9D | BEC-9S | BEC-9S | BEC-9S | BEC-9S | BEC-10S | BEC-10S | BEC-11S | BEC-12S | BEC-12S | BEC-12S | BEC-12S | BEC-13S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2316 | 2309 | 2309 | 2009 | 2012DUP | 89001-2009 | 89001-2009 | 89001-2010 | 89001-2018 | 89001-2011 | 89001-2012 | 93089-2318 | 93089-2318 | 93089-2318A | 89001-2013 |
| Sample Date: | | | | 8/10/95 | 8/8/95 | 8/8/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/10/95 | 8/10/95 | 12/12/90 |
| Analysis Date: | | | | 8/16/95 | 8/8/95 | 8/12/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/15/95 | 8/15/95 | 12/12/90 |
| Sample Depth: | | | | | | | | | | | | | | | | | | |
| Parameters | Units | EPA a | NJ b | | | | | Duplicate | | | | Duplicate | | | | | Duplicate | |
| **Metals** | | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | - | - | - | 0.05 | - | - | - | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | ND (0.01) | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | - | - | - | ND (10.0) | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 7.6 J | 8.8 | ND (10) | 0.42 J | - | - | - | ND (10) |
| Anthracene | ug/L | 10950 | 2000 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 2.3 J | 2.2 | ND (10) | ND (10) | - | - | - | ND (10) |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| Fluoranthene | ug/L | 1460 | 300 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 3.0 J | 2.9 | ND (10) | 0.72 J | - | - | - | ND (10) |
| Fluorene | ug/L | 1460 | 300 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 9.2 J | 11 | ND (10) | 0.38 J | - | - | - | ND (10) |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | - | - | ND (10) |
| Naphthalene | ug/L | 300 | 300 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 3.9 J | 5.3 | ND (10) | ND (10) | - | - | - | ND (10) |
| Phenanthrene | ug/L | 1095 | 100 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 12 | 14 | ND (10) | 0.62 J | - | - | - | ND (10) |
| Pyrene | ug/L | 1095 | 200 | - | - | - | ND (10) | ND (10) | ND (10) | ND (10.0) | 1.8 J | 1.5 | ND (10) | 0.48 J | - | - | - | ND (10) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | 5 | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | 6 | 8 | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | 4 | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 4 | 0 | 5 | 0 | 6 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | ND (0.2) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | ND (0.4) | - | ND (0.4) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | ND (0.4) | ND (5.0) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | ND (0.3) | - | 78 | ND (5.0) | ND (5.0) | ND (5.0) | 6.1 | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (0.3) | ND (5.0) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | ND (0.6) | - | 1.8 | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.6) | ND (0.6) | ND (5.0) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | ND (0.2) | - | ND (0.2) | 2.8 J | 3.0 J | 3.0 J | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | ND (0.2) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| Bromodichloromethane | ug/L | 80 | 1 | ND (0.2) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| Bromoform | ug/L | 80 | 4 | ND (0.3) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (0.3) | ND (5.0) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | ND (0.1) | - | ND (0.1) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.1) | ND (0.1) | ND (5.0) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | ND (0.2) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | 3.3 J | 3.7 | 5.6 | 6.7 | - | ND (0.2) | ND (0.2) | 3.5 J |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-8S | BEC-9D | BEC-9D | BEC-9S | BEC-9S | BEC-9S | BEC-9S | BEC-10S | BEC-10S | BEC-11S | BEC-12S | BEC-12S | BEC-12S | BEC-12S | BEC-13S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2316 | 2309 | 2309 | 2009 | 2012DUP | 89001-2009 | 89001-2009 | 89001-2010 | 89001-2018 | 89001-2011 | 89001-2012 | 93089-2318 | 93089-2318 | 93089-2318A | 89001-2013 |
| Sample Date: | | | | 8/10/95 | 8/8/95 | 8/8/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/10/95 | 8/10/95 | 12/12/90 |
| Analysis Date: | | | | 8/16/95 | 8/8/95 | 8/12/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/15/95 | 8/15/95 | 12/12/90 |
| Sample Depth: | | | | | | | | | | | | | | | | | | |
| Parameters | Units | EPA | NJ | | | | | Duplicate | | | | Duplicate | | | | | Duplicate | |
| | | a | b | | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | ND (1.0) | - | 11 | - | - | - | - | - | - | - | - | - | ND (1.0) | ND (1.0) | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | ND (0.2) | - | ND (0.2) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | ND (1.0) | - | ND (1.0) | - | - | - | - | - | - | - | - | - | ND (1.0) | ND (1.0) | - |
| Methylene chloride | ug/L | 3 | 3 | ND (1.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (1.0) | ND (5.0) |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | - | ND (10) | - | ND (10) | ND (10) | 6 | 8 | ND (10) | ND (10) | - | - | - | ND (10) |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | - | 10 | - | ND (10) | - | 20 | ND (10) | 10 | 10 | ND (10) | 0.62 | ND (1) | - | - | ND (10) |
| Tetrachloroethene | ug/L | 1 | 1 | ND (0.1) | - | 0.9 | ND (5.0) | ND (5.0) | ND (5.0) | 5.7* | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.1) | ND (0.1) | ND (5.0) |
| Toluene | ug/L | 1000 | 1000 | ND (0.2) | - | ND (0.2) | ND (5.0) | 1.2 J | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.2) | ND (0.2) | ND (5.0) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | - | - | - | ND | - | ND | - | ND | ND | - | - | - | ND |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | ND (0.3) | - | ND (0.3) | 3.4 J | 3.6 J | 3.7 J | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (0.3) | ND (5.0) |
| trans-1,3-Dichloropropene | ug/L | - | - | ND (0.3) | - | ND (0.3) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.3) | ND (0.3) | ND (5.0) |
| Trichloroethene | ug/L | 1 | 1 | ND (0.4) | - | 8.8* | 20* | 21 N* | 22* | 109.5* | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (0.4) | ND (0.4) | ND (5.0) |
| Vinyl chloride | ug/L | 2 | 5 | ND (0.4) | - | 1.5 | ND (10) | ND (10) | ND (10) | ND (10.0) | ND (10) | ND (10) | ND (10) | ND (10) | - | ND (0.4) | ND (0.4) | ND (10) |
| Xylene (total) | ug/L | 1000 | 1000 | ND (1.0) | - | ND (1.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | ND (5.0) | - | ND (1.0) | ND (1.0) | ND (5.0) |
| *Volatile TICS* | | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | 51 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexdiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | 9.0 | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $C_6H_{14}$ Alkane A | ug/L | | | | | | | | | | | | | | | | | |
| $C_8H_{14}$ Hydrocarbon A | ug/L | | | | | | | | | | | | | | | | | |
| $C_8H_{16}$ Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| $C_8H_{16}$ Cycloalkane B | ug/L | | | | | | | | | | | | | | | | | |
| $C_9H_{10}$ aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $C_9H_{10}$ Aromatic/$C_{10}H_{14}$ Aromatic | ug/L | | | | | | | | | | | | | | | | | |
| $C_9H_{18}$ Cycloalkane A | ug/L | | | | | | | | | | | | | | | | | |
| $C_{10}H_{12}$ aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| $C_{10}H_{12}$ aromatic B | ug/L | | | | | | | | | | | | | | | | | |
| $C_{10}H_{12}$ aromatic C | ug/L | | | | | | | | | | | | | | | | | |
| $C_{10}H_{12}$ aromatic D | ug/L | | | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | 4.0 | 3.0 | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-8S* | *BEC-9D* | *BEC-9D* | *BEC-9S* | *BEC-9S* | *BEC-9S* | *BEC-9S* | *BEC-10S* | *BEC-10S* | *BEC-11S* | *BEC-12S* | *BEC-12S* | *BEC-12S* | *BEC-12S* | *BEC-13S* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2316 | 2309 | 2309 | 2009 | 2012DUP | 89001-2009 | 89001-2009 | 89001-2010 | 89001-2018 | 89001-2011 | 89001-2012 | 93089-2318 | 93089-2318 | 93089-2318A | 89001-2013 |
| *Sample Date:* | | | | 8/10/95 | 8/8/95 | 8/8/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/10/95 | 8/15/95 | 12/12/90 |
| *Analysis Date:* | | | | 8/16/95 | 8/8/95 | 8/12/95 | 11/8/90 | 11/8/90 | 12/12/90 | 12/15/90 | 12/12/90 | 12/12/90 | 12/12/90 | 12/12/90 | 8/10/95 | 8/15/95 | 8/15/95 | 12/12/90 |
| *Sample Depth:* | | | | | | | | | | | | | | | | | | |
| | | | | | | | | *Duplicate* | | | | *Duplicate* | | | | | *Duplicate* | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | 9.0 | 10 | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | 2.0 | 3.0 | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | 23 | 2.0 | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | 2.0 | 2.0 | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | 3.7 | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | 11 | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | 3.5 | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | 4.3 | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 65.70000005 | 40 | 19 | 17.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | BEC-13S | BEC-13S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | HP-2 | HP-3 | HP-4 | HP-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2319 | 93089-2319 | 93089-2204 | 93089-2204 | 93089-2320 | 93089-2320 | 93089-2406 | 93089-2406 | 93089-2406 | 93089-2002 | 93089-2003 | 93089-2004 | 93089-2005 |
| Sample Date: | | | | 8/9/95 | 8/9/95 | 4/20/95 | 4/20/95 | 8/10/95 | 8/10/95 | 3/12/96 | 3/12/96 | 3/12/96 | 12/6/93 | 12/7/93 | 12/7/93 | 12/7/93 |
| Analysis Date: | | | | 8/9/95 | 8/15/95 | 4/20/95 | 5/1/95 | 8/10/95 | 8/16/95 | 3/12/96 | 3/13/96 | 3/25/96 | 12/6/93 | 12/7/93 | 12/7/93 | 12/7/93 |
| Sample Depth: | | | | | | | | | | | | | (22-) | (15-) | (14-) | (19-) |
| **Parameters** | **Units** | **EPA** a | **NJ** b | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | ND | - | - | - | 0.0032 | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fluorene | ug/L | 1460 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene | ug/L | 300 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Phenanthrene | ug/L | 1095 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Pyrene | ug/L | 1095 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indan-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indan-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | ND (25) | ND (5) | ND (25) | ND (5) |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | ND (0.4) | - | ND (0.4) | - | ND (0.4) | - | - | ND (0.4) | ND (15) | ND (3) | ND (15) | ND (3) |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | - | - | ND (0.3) | ND (25) | ND (5) | ND (25) | ND (5) |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | ND (0.6) | - | ND (0.6) | - | ND (0.6) | - | - | ND (0.6) | 5 J * | ND (2) | ND (10) | ND (2) |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | 39 * | ND (2) | ND (10) | ND (2) |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | - | - | - | - | - | ND (100) | ND (20) | ND (100) | ND (20) |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | - | - | - | - | - | ND (125) | ND (25) | ND (125) | ND (25) |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | 16 J | 120 | 190 | 14 J |
| Benzene | ug/L | 1 | 1 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | ND (5) | ND (1) | ND (5) | ND (1) |
| Bromodichloromethane | ug/L | 80 | 1 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | - | - | - | - |
| Bromoform | ug/L | 80 | 4 | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | - | - | ND (0.3) | ND (20) | ND (4) | ND (20) | ND (4) |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| Chlorobenzene | ug/L | 50 | 50 | - | ND (0.1) | - | ND (0.1) | - | ND (0.1) | - | - | ND (0.1) | 51 * | ND (4) | ND (20) | ND (4) |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | ND (25) | ND (5) | ND (25) | ND (5) |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | BEC-13S | BEC-13S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | BEC-14S | HP-2 | HP-3 | HP-4 | HP-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2319 | 93089-2319 | 93089-2204 | 93089-2204 | 93089-2320 | 93089-2320 | 93089-2406 | 93089-2406 | 93089-2406 | 93089-2002 | 93089-2003 | 93089-2004 | 93089-2005 |
| *Sample Date:* | | | | 8/9/95 | 8/9/95 | 4/20/95 | 4/20/95 | 8/10/95 | 8/10/95 | 3/12/96 | 3/12/96 | 3/12/96 | 12/6/93 | 12/7/93 | 12/7/93 | 12/7/93 |
| *Analysis Date:* | | | | 8/9/95 | 8/15/95 | 4/20/95 | 5/1/95 | 8/10/95 | 8/16/95 | 3/12/96 | 3/13/96 | 3/25/96 | 12/6/93 | 12/7/93 | 12/7/93 | 12/7/93 |
| *Sample Depth:* | | | | | | | | | | | | | (22-) | (15-) | (14-) | (19-) |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | ND (1.0) | - | 3.0 | - | 2.4 | - | - | 2.5 | - | - | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | ND (25) | ND (5) | ND (25) | ND (5) |
| m&p-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | ND (1.0) | - | - | - | 2.0 | - | - | 2.8 | ND (25) | ND (5) | ND (25) | ND (5) |
| Methylene chloride | ug/L | 3 | 3 | - | ND (1.0) | - | ND (1.0) | - | 1.3 | - | - | ND (1.0) | ND (10) | ND (2) | ND (10) | ND (2) |
| o-Xylene | ug/L | - | - | - | - | - | - | - | - | - | - | - | ND (25) | ND (5) | ND (25) | ND (5) |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (1) | - | 4 | - | ND (1) | - | ND (1) | - | - | ND (100) | ND (20) | ND (100) | ND (20) |
| Tetrachloroethene | ug/L | 1 | 1 | - | ND (0.1) | - | ND (0.1) | - | ND (0.1) | - | - | ND (0.1) | 25 [ab] | ND (1) | ND (5) | ND (1) |
| Toluene | ug/L | 1000 | 1000 | - | ND (0.2) | - | ND (0.2) | - | ND (0.2) | - | - | ND (0.2) | ND (25) | ND (5) | ND (25) | ND (5) |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total VOCS | ug/L | - | - | - | - | - | - | - | - | - | - | 8.0 | 742 | 120 | 190 | 14 |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | - | - | ND (0.3) | 31 | ND (5) | ND (25) | ND (5) |
| trans-1,3-Dichloropropene | ug/L | - | - | - | ND (0.3) | - | ND (0.3) | - | ND (0.3) | - | - | ND (0.3) | ND (25) | ND (5) | ND (25) | ND (5) |
| Trichloroethene | ug/L | 1 | 1 | - | ND (0.4) | - | 3.5 [ab] | - | 2.9 [ab] | - | - | 2.7 [ab] | 550 [ab] | ND (1) | ND (5) | ND (1) |
| Vinyl chloride | ug/L | 2 | 5 | - | ND (0.4) | - | ND (0.4) | - | ND (0.4) | - | - | ND (0.4) | 25 J [ab] | ND (5) | ND (25) | ND (5) |
| Xylene (total) | ug/L | 1000 | 1000 | - | ND (1.0) | - | ND (1.0) | - | ND (1.0) | - | - | ND (1.0) | - | - | - | - |
| *Volatile TICS* | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Heptene-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *BEC-13S* | *BEC-13S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *BEC-14S* | *HP-2* | *HP-3* | *HP-4* | *HP-5* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *93089-2319* | *93089-2319* | *93089-2204* | *93089-2204* | *93089-2320* | *93089-2320* | *93089-2406* | *93089-2406* | *93089-2406* | *93089-2002* | *93089-2003* | *93089-2004* | *93089-2005* |
| *Sample Date:* | | | | *8/9/95* | *8/9/95* | *4/20/95* | *4/20/95* | *8/10/95* | *8/10/95* | *3/12/96* | *3/12/96* | *3/12/96* | *12/6/93* | *12/7/93* | *12/7/93* | *12/7/93* |
| *Analysis Date:* | | | | *8/9/95* | *8/15/95* | *4/20/95* | *5/1/95* | *8/10/95* | *8/16/95* | *3/12/96* | *3/13/96* | *3/25/96* | *12/6/93* | *12/7/93* | *12/7/93* | *12/7/93* |
| *Sample Depth:* | | | | | | | | | | | | | *(22-)* | *(15-)* | *(14-)* | *(19-)* |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | | |
| | | *a* | *b* | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | 4.0 | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 140 | 0 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | HP-6 | HP-7 | HP-7 | HP-8 | HP-8 | HP-9 | HP-10 | PE-02 | PE-03 | PE-04 | PE-05 | PE-06 | PE-07 | PE-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2001 | 93089-2002 | 93089-2003 | 93089-2004 | 93089-2007 | 93089-2005 | 93089-2006 | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN |
| Sample Date: | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| Analysis Date: | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| Sample Depth: | | | | (10-) | (8-10) | (8-10) | | | | | | | | | | | |
| | | | | | | Duplicate | | Duplicate | | | | | | | | | |
| **Parameters** | Units | EPA a | NJ b | | | | | | | | | | | | | | |
| **Metals** | | | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| **Semi-Volatiles** | | | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | ND | ND |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - | ND | ND |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | ND | 53 J |
| Acenaphthene | ug/L | 2190 | 400 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | 86 J ab | ND |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | 86 J ab | ND |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | - | - | - | - | - | - | - | - | - | - | - | - | 200 J ab | ND |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | 250 J | ND |
| Fluorene | ug/L | 1460 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | - | - | - | - | - | - | - | - | - | - | - | - | ND | ND |
| Naphthalene | ug/L | 300 | 300 | - | - | - | - | - | - | - | - | - | - | - | - | ND | ND |
| Phenanthrene | ug/L | 1095 | 100 | - | - | - | - | - | - | - | - | - | - | - | - | 97 J | 57 J |
| Pyrene | ug/L | 1095 | 200 | - | - | - | - | - | - | - | - | - | - | - | - | 120 J | ND |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 839 | 110 |
| **Semi-Volatile TICS** | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| **Volatiles** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | ND (3) | ND (3) | ND (3) | ND (3) | ND (3) | ND (3) | ND (3) | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | ug/L | 50 | 50 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | ug/L | 2 | 2 | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | ND (2) | - | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | ND (5) | ND (5) | ND (5) | 1 J | 1 J | 1 J | ND (5) | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND (5) | ND (5) | ND (5) | ND (5) | 2 J | 1 J | 1 J | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | ND (20) | ND (20) | ND (20) | ND (20) | ND (20) | ND (20) | ND (20) | ND | ND | ND | ND | ND | - | - |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | ND (25) | ND | ND | ND | ND | ND | - | - |
| Acetone | ug/L | 3650 | 700 | ND (20) | 8 J | 8 J | 8 J | ND (20) | 100 | 10 J | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | - | - | - | - | - | - | - |
| Bromodichloromethane | ug/L | 80 | 1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Bromoform | ug/L | 80 | 4 | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | - | - | - | - | - | - | - |
| Carbon disulfide | ug/L | 3650 | 800 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | 2 J | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | ND (4) | - | - | - | - | - | - | - |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| Sample Location: | | | | HP-6 | HP-7 | HP-7 | HP-8 | HP-8 | HP-9 | HP-10 | PE-02 | PE-03 | PE-04 | PE-05 | PE-06 | PE-07 | PE-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample ID: | | | | 93089-2001 | 93089-2002 | 93089-2003 | 93089-2004 | 93089-2007 | 93089-2005 | 93089-2006 | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN |
| Sample Date: | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| Analysis Date: | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| Sample Depth: | | | | (10-) | (8-10) | (8-10) | | | | | | | | | | | |
| | | | | | | Duplicate | | Duplicate | | | | | | | | | |
| Parameters | Units | EPA a | NJ b | | | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| m&p-Xylene | ug/L | - | - | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND | 47 | ND | ND | ND | - | - |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | ND (5) | ND (5) | ND (5) | 55 | 45 | 1 J | 1 J | - | - | - | - | - | - | - |
| Methylene chloride | ug/L | 3 | 3 | 4 [illegible] | ND (2) | ND (2) | ND (2) | 2 J | 2 J | 1 J | - | - | - | - | - | - | - |
| o-Xylene | ug/L | - | - | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND | 55 | ND | ND | ND | - | - |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | ND (20) | ND (20) | - | ND (20) | - | ND (20) | ND (20) | ND | ND | ND | ND | ND | 90 | 160 |
| Tetrachloroethene | ug/L | 1 | 1 | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | - | - | - | - | - | - | - |
| Toluene | ug/L | 1000 | 1000 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | - | - | - | 2.4 | 102 | ND | ND | ND | - | - |
| Total VOCS | ug/L | - | - | 5 | 8 | 8 | 64 | 50 | 105 | 15 | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| trans-1,3-Dichloropropene | ug/L | - | - | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | 2.4 J | ND | ND | ND | ND | - | - |
| Trichloroethene | ug/L | 1 | 1 | 1 | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND (1) | ND | ND | ND | ND | ND | - | - |
| Vinyl chloride | ug/L | 2 | 5 | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | ND (5) | - | - | - | - | - | - | - |
| Xylene (total) | ug/L | 1000 | 1000 | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| *Volatile TICS* | | | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | HP-6 | HP-7 | HP-7 | HP-8 | HP-8 | HP-9 | HP-10 | PE-02 | PE-03 | PE-04 | PE-05 | PE-06 | PE-07 | PE-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | 93089-2001 | 93089-2002 | 93089-2003 | 93089-2004 | 93089-2007 | 93089-2005 | 93089-2006 | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN |
| *Sample Date:* | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| *Analysis Date:* | | | | 4/8/94 | 4/8/94 | 4/8/94 | 4/20/94 | 4/20/94 | 4/20/94 | 4/20/94 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/29/91 | 1/9/91 | 1/9/91 |
| *Sample Depth:* | | | | (10-) | (8-10) | (8-10) | | | | | | | | | | | |
| | | | | | | *Duplicate* | | *Duplicate* | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (Isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | *PE-21* | *PE-29* | *PE-36* | *PE-42* | *PE-46* | *PE-53* | *PE-54* | *PE-55* | *PE-64* | *PE-65* | *PE-66* | *PE-69* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* | *UNKNOWN* |
| *Sample Date:* | | | | *1/9/91* | *1/9/91* | *1/9/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* |
| *Analysis Date:* | | | | *1/9/91* | *1/9/91* | *1/9/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* | *1/10/91* |
| *Sample Depth:* | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | |
| | | *a* | *b* | | | | | | | | | | | | |
| ***Metals*** | | | | | | | | | | | | | | | |
| Chromium | mg/L | 0.1 | 0.1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Copper | mg/L | 1.3 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Lead | mg/L | 0.015 | 0.01 | - | - | - | - | - | - | - | - | - | - | - | - |
| Zinc | mg/L | 10.95 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| ***Semi-Volatiles*** | | | | | | | | | | | | | | | |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | ND | 560 | ND | ND | - | ND | - | - | ND | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | ND | 320 J [ab] | ND | ND | - | ND | - | - | ND | - | - | - |
| 2,2'-oxybis(1-Chloropropane) | ug/L | 0.9604 | 300 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene | ug/L | 730 | 100 | 180 J [b] | 1500 [ab] | ND | 80 J | - | ND | - | - | ND | - | - | - |
| Acenaphthene | ug/L | 2190 | 400 | - | - | - | - | - | - | - | - | - | - | - | - |
| Anthracene | ug/L | 10950 | 2000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)fluoranthene | ug/L | 0.092098 | 10 | ND | ND | ND | ND | - | ND | - | - | ND | - | - | - |
| Benzo(k)fluoranthene | ug/L | 0.92098 | 1 | ND | ND | ND | ND | - | ND | - | - | ND | - | - | - |
| bis(2-Chloroethyl)ether | ug/L | 0.06112 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| bis(2-Ethylhexyl)phthalate | ug/L | 6 | 30 | ND | ND | ND | ND | - | 57 J [ab] | - | - | ND | - | - | - |
| Di-n-butylphthalate | ug/L | 3650 | 900 | - | - | - | - | - | - | - | - | - | - | - | - |
| Fluoranthene | ug/L | 1460 | 300 | ND | 200 J | ND | ND | - | ND | - | - | ND | - | - | - |
| Fluorene | ug/L | 1460 | 300 | - | - | - | - | - | - | - | - | - | - | - | - |
| N-Nitrosodiphenylamine | ug/L | 13.72 | 20 | ND | 1500 [ab] | ND | ND | - | ND | - | - | ND | - | - | - |
| Naphthalene | ug/L | 300 | 300 | 47 J | ND | ND | ND | - | ND | - | - | ND | - | - | - |
| Phenanthrene | ug/L | 1095 | 100 | 260 J [b] | 530 [b] | ND | ND | - | ND | - | - | ND | - | - | - |
| Pyrene | ug/L | 1095 | 200 | ND | ND | ND | ND | - | ND | - | - | ND | - | - | - |
| Total Targeted Compounds | ug/L | - | - | 487 | 4610 | ND | 80 | - | 57 | - | - | ND | - | - | - |
| ***Semi-Volatile TICS*** | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetrahydro-naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one,2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,4,4-Trimethyl-2-pentene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,3,5-trimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, ethyl-1,2,4-trimeth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzo(b)thiophene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbazole A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexanone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, pentyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Hexanedioic acid, mono(2-eth A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrachloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Semi-Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ***Volatiles*** | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | ug/L | 30 | 30 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1,2-Trichloroethane | ug/L | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethane | ug/L | 50 | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,1-Dichloroethene | ug/L | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichloroethane | ug/L | 2 | 2 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,3-Dichlorobenzene | ug/L | 600 | 600 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Dichlorobenzene | ug/L | 75 | 75 | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Hexanone | ug/L | - | 100 | - | - | - | - | ND | - | 3.0 J | ND | - | ND | ND | ND |
| 4-Methyl-2-pentanone | ug/L | 2920 | 400 | - | - | - | - | ND | - | ND | 2.4 J | - | ND | ND | ND |
| Acetone | ug/L | 3650 | 700 | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene | ug/L | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bromodichloromethane | ug/L | 80 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Bromoform | ug/L | 80 | 4 | - | - | - | - | - | - | - | - | - | - | - | - |
| Carbon disulfide | ug/L | 3650 | 800 | - | - | - | - | - | - | - | - | - | - | - | - |
| Chlorobenzene | ug/L | 50 | 50 | - | - | - | - | - | - | - | - | - | - | - | - |
| Chloroform (Trichloromethane) | ug/L | 80 | 6 | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUMMARY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

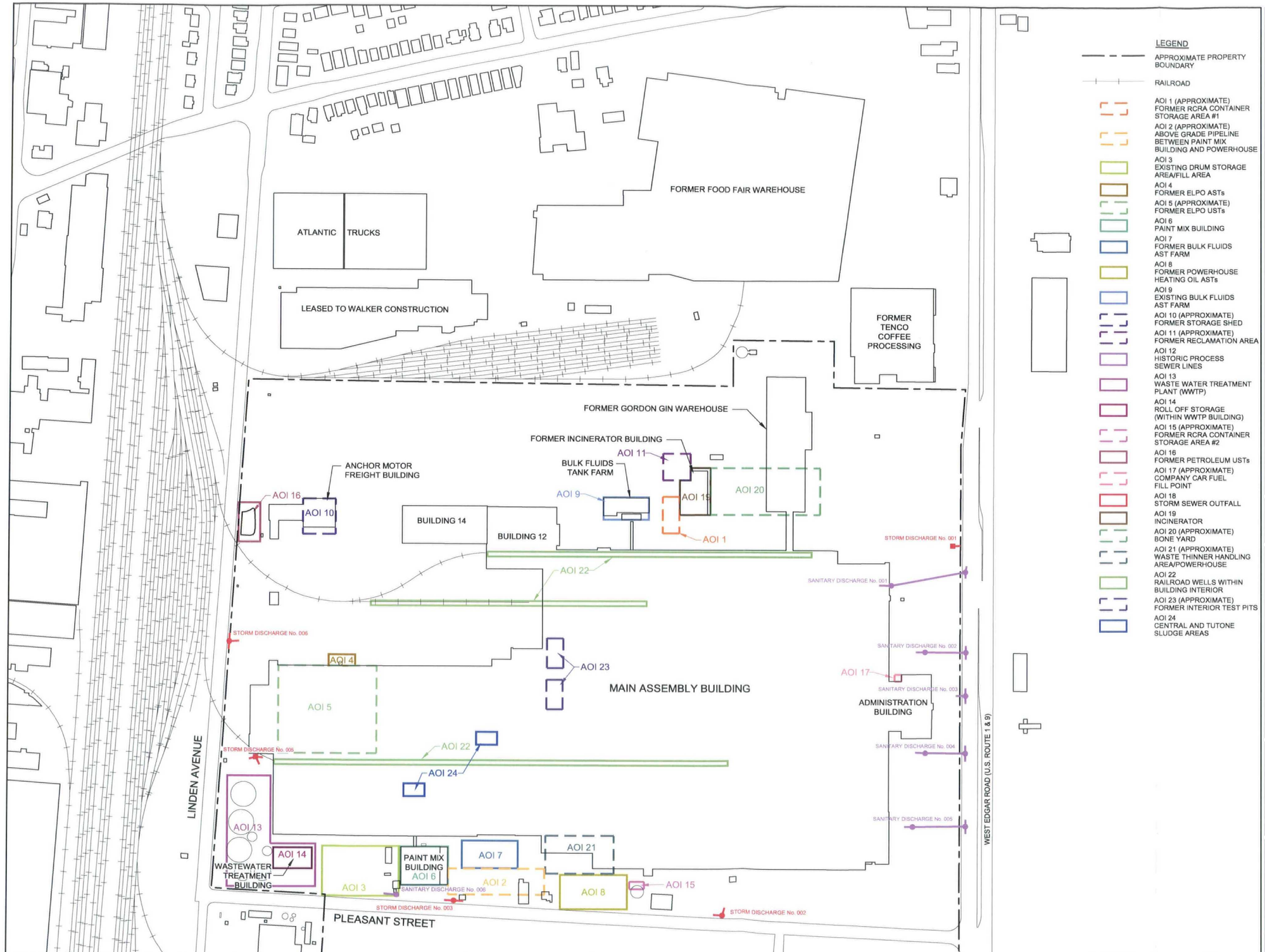
| *Sample Location:* | | | | PE-21 | PE-29 | PE-36 | PE-42 | PE-46 | PE-53 | PE-54 | PE-55 | PE-64 | PE-65 | PE-66 | PE-69 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN |
| *Sample Date:* | | | | 1/9/91 | 1/9/91 | 1/9/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 |
| *Analysis Date:* | | | | 1/9/91 | 1/9/91 | 1/9/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 |
| *Sample Depth:* | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* | *NJ* | | | | | | | | | | | | |
| | | a | b | | | | | | | | | | | | |
| cis-1,2-Dichloroethene | ug/L | 70 | 70 | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclobutane, 1,2-diethyl- | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylbenzene | ug/L | 700 | 700 | - | - | - | - | - | - | - | - | - | - | - | - |
| m&p-Xylene | ug/L | - | - | - | - | - | - | ND | - | ND | ND | - | 3.0 J | ND | ND |
| Methyl Tert Butyl Ether | ug/L | 70 | 70 | - | - | - | - | - | - | - | - | - | - | - | - |
| Methylene chloride | ug/L | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| o-Xylene | ug/L | - | - | - | - | - | - | ND | - | ND | ND | - | ND | ND | ND |
| Synthetic Organic Compounds (cancer) | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Synthetic Organic Compounds (non-cancer) | ug/L | - | - | 620 | 3530 | ND | 160 | ND | ND | 3 | ND | ND | ND | ND | ND |
| Tetrachloroethene | ug/L | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene | ug/L | 1000 | 1000 | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Targeted Compounds | ug/L | - | - | - | - | - | - | ND | - | 3.0 | 2.4 | - | 6.4 | 3.1 | ND |
| Total VOCS | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,2-Dichloroethene | ug/L | 100 | 100 | - | - | - | - | - | - | - | - | - | - | - | - |
| trans-1,3-Dichloropropene | ug/L | - | - | - | - | - | - | ND | - | ND | ND | - | ND | ND | ND |
| Trichloroethene | ug/L | 1 | 1 | - | - | - | - | ND | - | ND | ND | - | 3.4 J* | 3.1 J* | ND |
| Vinyl chloride | ug/L | 2 | 5 | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene (total) | ug/L | 1000 | 1000 | - | - | - | - | - | - | - | - | - | - | - | - |
| *Volatile TICS* | | | | | | | | | | | | | | | |
| 1,2,3,4-Tetramethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3,5-Tetramethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,3-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2,4-Trimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,2-Dichlorobenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Hexadiene, 2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Methanonaphthalene, 1,4- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1,4-Pentadiene, 2,3,4-trimet B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethenyl-2-methyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-2-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-3-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Ethyl-4-methylbenzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Hexane, 5,5-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Methylethyl-benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1-Pentene, 3,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-1-one, 2,3-dihydro- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Inden-5-ol, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,2-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-1,6-d A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Indene, 2,3-dihydro-4-met A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1H-Pyrazole, 4,5-dihydro-1,5 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methyl naphthalene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylbutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2-Methylpentane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2,3-dihydro-dimethyl-1H-Indene Isomer A | ug/L | | | | | | | | | | | | | | |
| 3-Hexene, 2,2-dimethyl-, (Z)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3-Hepten-2-one A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4-Ethyl-1,2-dimethylbenzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Acetone A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2,4,5-tetramethyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1,2-diethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethyl-2,3-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-ethylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-(1-methylethyl)- B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methyl-3-propyl A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 1-methylpropyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethenyl-1,4-dimet A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzene, 2-ethly-1,4-dimethy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Benzyl Alcohol A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 1-(1-methylpropoxy)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Butane, 2-ethoxy- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C6H14 Alkane A | ug/L | | | | | | | | | | | | | | |
| C8H14 Hydrocarbon A | ug/L | | | | | | | | | | | | | | |
| C8H16 Cycloalkane A | ug/L | | | | | | | | | | | | | | |
| C8H16 Cycloalkane B | ug/L | | | | | | | | | | | | | | |
| C9H10 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C9H10 Aromatic/C10H14 Aromatic | ug/L | | | | | | | | | | | | | | |
| C9H18 Cycloalkane A | ug/L | | | | | | | | | | | | | | |
| C10H12 aromatic A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| C10H12 aromatic B | ug/L | | | | | | | | | | | | | | |
| C10H12 aromatic C | ug/L | | | | | | | | | | | | | | |
| C10H12 aromatic D | ug/L | | | | | | | | | | | | | | |
| Cycloheptane, methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclohexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopentene, 4,4-dimethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Cyclopropane, 1-(2-methylbut)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

# ANALYTICAL RESULTS SUM[illegible]RY OF DETECTED ANALYTES
## HISTORIC - GROUNDWATER
## LINDEN, NJ

| *Sample Location:* | | | | PE-21 | PE-29 | PE-36 | PE-42 | PE-46 | PE-53 | PE-54 | PE-55 | PE-64 | PE-65 | PE-66 | PE-69 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Sample ID:* | | | | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN | UNKNOWN |
| *Sample Date:* | | | | 1/9/91 | 1/9/91 | 1/9/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 |
| *Analysis Date:* | | | | 1/9/91 | 1/9/91 | 1/9/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 | 1/10/91 |
| *Sample Depth:* | | | | | | | | | | | | | | | |
| *Parameters* | *Units* | *EPA* a | *NJ* b | | | | | | | | | | | | |
| Cyclotetrasiloxane, octamethyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Diethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | |
| Diisopropyl ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dimethyl cyclohexane (isomers) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Dodecanamide, n,n-bis(2-hydroxyethyl)- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ether A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethyl Methyl Benzene B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylcyclobutane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Ethylmethyl benzene B | ug/L | | | | | | | | | | | | | | |
| Hexane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| H-Indene-1-one, 2,3-dihydro- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indan, 1-methyl- A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Indane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Naphthalene, 1,2,3,4-tetrahy A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Tetrahydrofuran A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Toluene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trichloroethene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Trimethylbenzene Isomer A | ug/L | | | | | | | | | | | | | | |
| Trimethylbenzene Isomer B | ug/L | | | | | | | | | | | | | | |
| Unknown A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown D | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Aldehyde B | ug/L | | | | | | | | | | | | | | |
| Unknown Alkane A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Alkane B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C10H20 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown C8H16 A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown Hydrocarbon B | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Unknown isomer of trimethyl benzene A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Xylene(ortho) A | ug/L | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Total Volatile TICS | ug/L | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

*Notes:*

| | |
|---|---|
| J | Estimated value |
| B | < CRDL but >= Instrument Detection Limit (IDL) |
| ND | Non-detect at associated level |
| a | EPA Screening Criteria |
| b | New Jersey Screening Criteria |




## LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD
- AOI 1 (APPROXIMATE) FORMER RCRA CONTAINER STORAGE AREA #1
- AOI 2 (APPROXIMATE) ABOVE GRADE PIPELINE BETWEEN PAINT MIX BUILDING AND POWERHOUSE
- AOI 3 EXISTING DRUM STORAGE AREA/FILL AREA
- AOI 4 FORMER ELPO ASTs
- AOI 5 (APPROXIMATE) FORMER ELPO USTs
- AOI 6 PAINT MIX BUILDING
- AOI 7 FORMER BULK FLUIDS AST FARM
- AOI 8 FORMER POWERHOUSE HEATING OIL ASTs
- AOI 9 EXISTING BULK FLUIDS AST FARM
- AOI 10 (APPROXIMATE) FORMER STORAGE SHED
- AOI 11 (APPROXIMATE) FORMER RECLAMATION AREA
- AOI 12 HISTORIC PROCESS SEWER LINES
- AOI 13 WASTE WATER TREATMENT PLANT (WWTP)
- AOI 14 ROLL OFF STORAGE (WITHIN WWTP BUILDING)
- AOI 15 (APPROXIMATE) FORMER RCRA CONTAINER STORAGE AREA #2
- AOI 16 FORMER PETROLEUM USTs
- AOI 17 (APPROXIMATE) COMPANY CAR FUEL FILL POINT
- AOI 18 STORM SEWER OUTFALL
- AOI 19 INCINERATOR
- AOI 20 (APPROXIMATE) BONE YARD
- AOI 21 (APPROXIMATE) WASTE THINNER HANDLING AREA/POWERHOUSE
- AOI 22 RAILROAD WELLS WITHIN BUILDING INTERIOR
- AOI 23 (APPROXIMATE) FORMER INTERIOR TEST PITS
- AOI 24 CENTRAL AND TUTONE SLUDGE AREAS

| Nº | Revision | Date | Initial |
|---|---|---|---|
| | | | |

PLANT NORTH

0 60 150ft

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

| Status | Date | Initial |
|---|---|---|
| | | |

GENERAL MOTORS VEHICLE MANUFACTURING-
LINDEN ASSEMBLY
LINDEN, NEW JERSEY

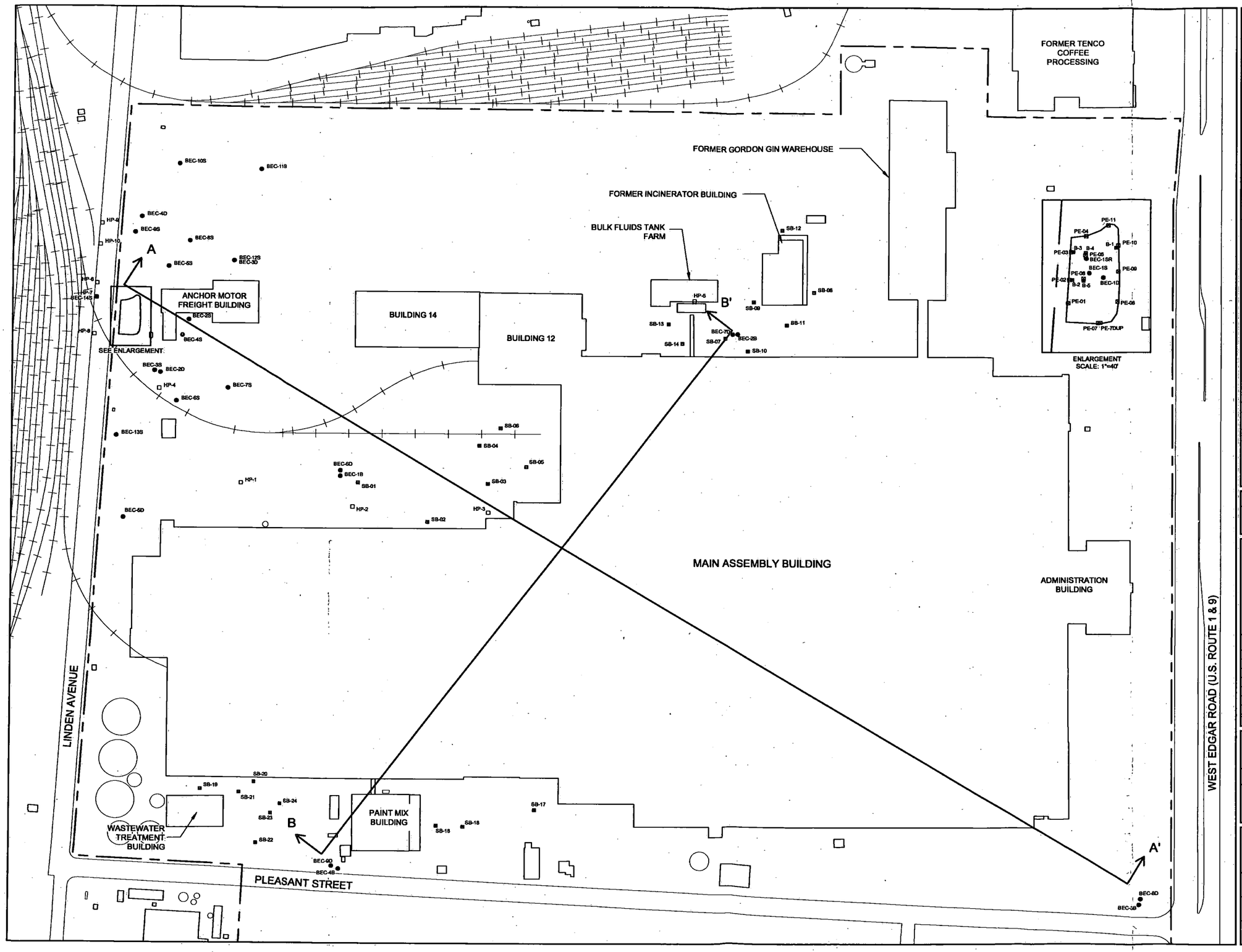
SITE PLAN DEPICTING
AOI LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

| Project Manager: | Reviewed By: | Date: | |
|---|---|---|---|
| IKR | SE | APRIL 2002 | |
| Scale: 1"=150' | Project Nº: 17371-00 | Report Nº: PRES002 | Drawing Nº: figure 1.2 |

17371-00(PRES002)GN-WA002 MAY 07/2002




| № | Revision | Date | Initial |
|---|---|---|---|
| | | | |

PLANT NORTH

0 60 150ft

**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- HYDROPUNCH LOCATION
- POST EXCAVATION SAMPLE LOCATION
- A A' CROSS SECTION LOCATION (SEE FIGURE 4.1)

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

| Status | Date | Initial |
|---|---|---|
| | | |

GENERAL MOTORS VEHICLE MANUFACTURING-
LINDEN ASSEMBLY
LINDEN, NEW JERSEY

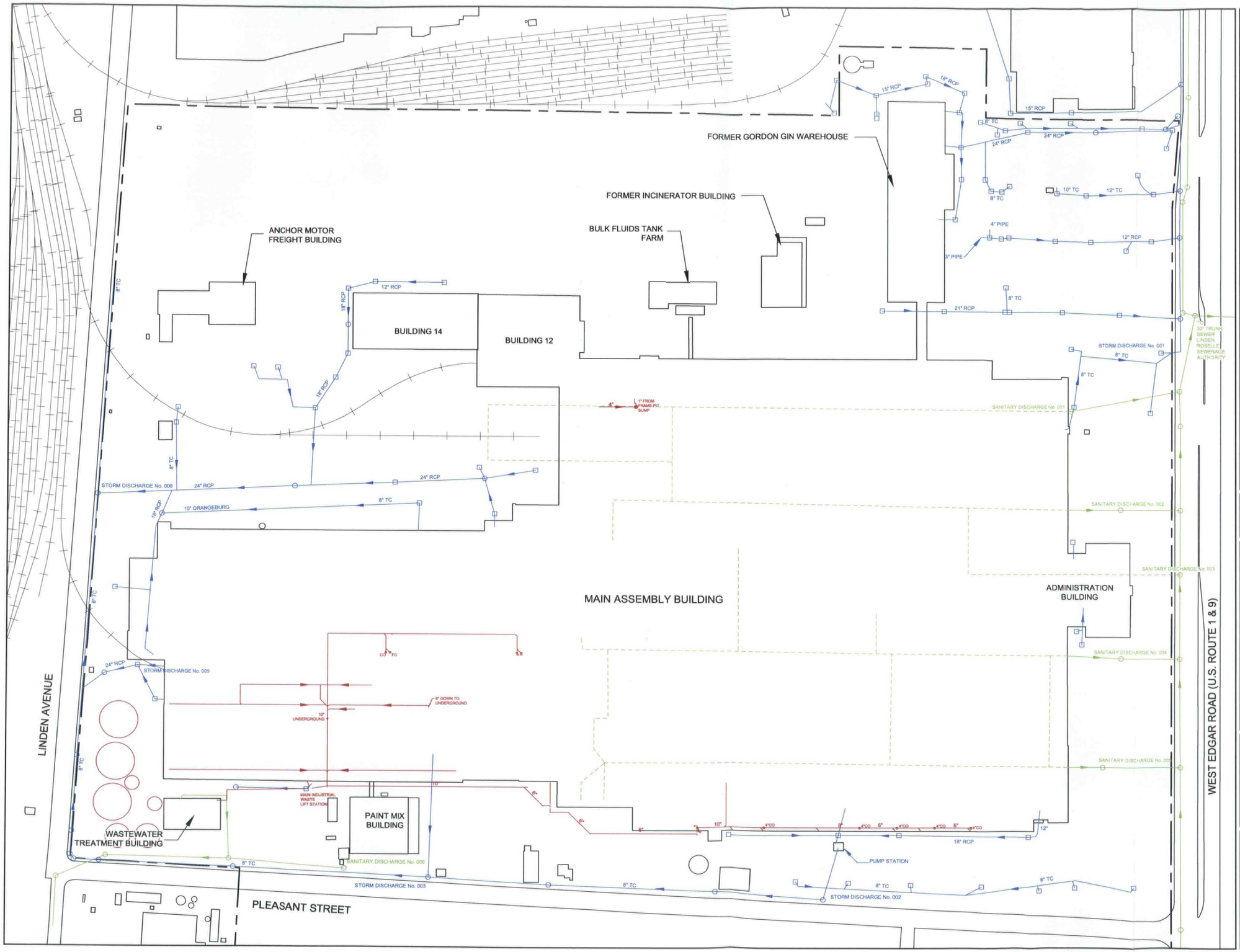
HISTORICAL SAMPLE LOCATIONS AND CROSS-SECTION LOCATIONS

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

| Project Manager: | Reviewed By: | Date: | |
|---|---|---|---|
| IKR | SE | APRIL 2002 | |
| Scale: 1"=100' | Project №: 17371-00 | Report №: PRES002 | Drawing №: figure 1.3 |

17371-00(PRES002)GN-WA011 MAY 07/2002




| NO | Revision | Date | Initial |
|---|---|---|---|
| | | | |

## LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- RAILROAD
- STORM SEWER
- SANITARY SEWER
- APPROXIMATE SANITARY SEWER
- EXISTING PRETREATMENT PROCESS PIPING
- MANHOLE
- CATCHBASIN

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

| Status | Date | Initial |
|---|---|---|
| | | |

GENERAL MOTORS VEHICLE MANUFACTURING-
LINDEN ASSEMBLY
LINDEN, NEW JERSEY

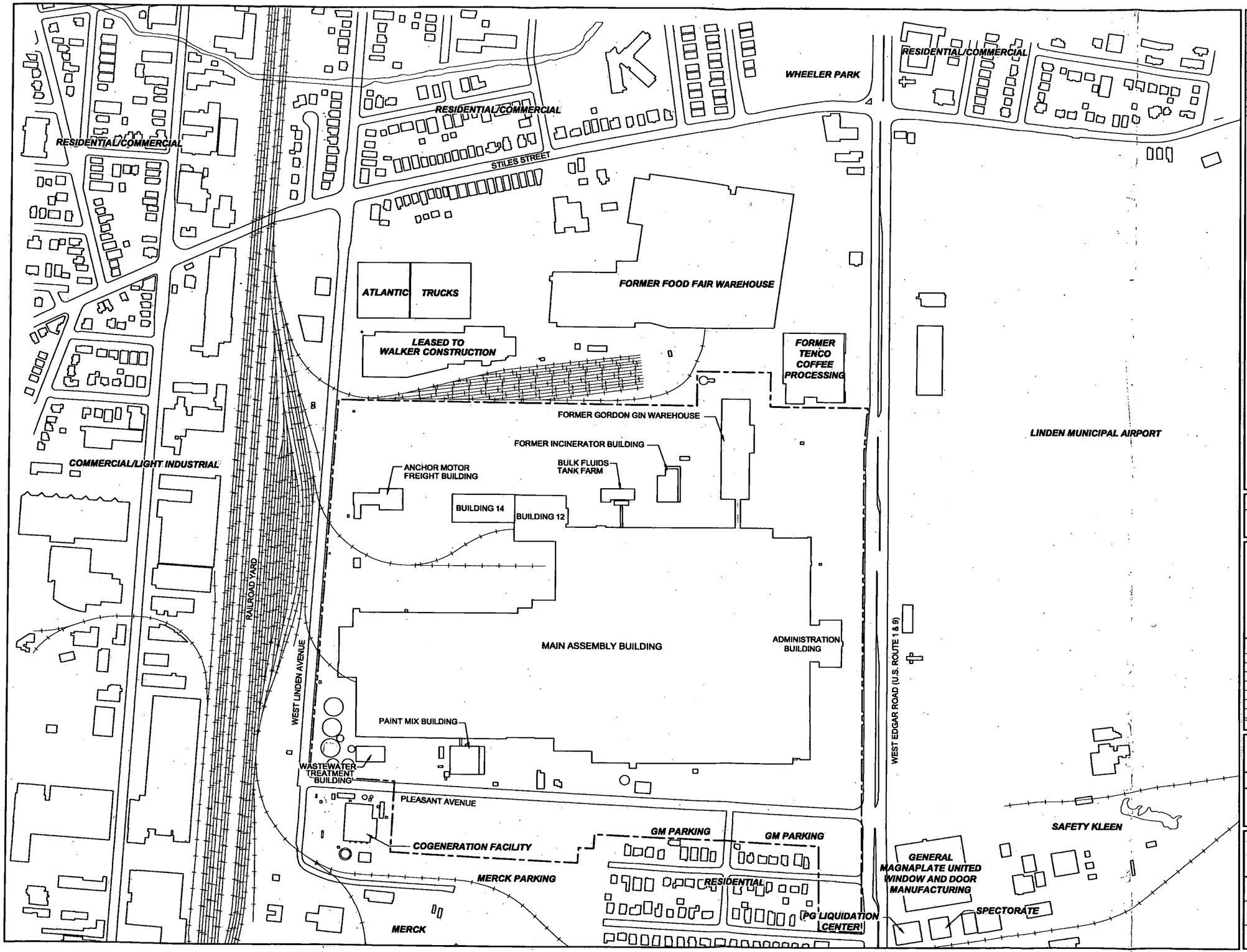
STORMWATER AND WASTEWATER SEWER LINES

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
CORPORATE ENVIRONMENTAL ENGINEERING, INC. FACILITY PLAN

| Project Manager: | Reviewed By: | Date: | |
|---|---|---|---|
| IKR | SE | APRIL 2002 | |
| Scale: 1"=100' | Project N°: 17371-00 | Report N°: PRES002 | Drawing N°: figure 2.1 |

17371-00(PRES002)GN-WA005 MAY 07/2002




| No | Revision | Date | Initial |
|---|---|---|---|
| | | | |

PLANT NORTH

0 100 200ft

**LEGEND**

APPROXIMATE PROPERTY BOUNDARY

RAILROAD

**SCALE VERIFICATION**

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

**DRAWING STATUS**

| Status | Date | Initial |
|---|---|---|
| | | |

GENERAL MOTORS VEHICLE MANUFACTURING-
LINDEN ASSEMBLY
LINDEN, NEW JERSEY

LAND USE MAP
FOR AREA SURROUNDING PLANT

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:
BASE MAP PROVIDED BY CRA AND ADDITIONS BASED ON BELL SITE RECONNAISSANCE

| Project Manager: | Reviewed By: | Date: | |
|---|---|---|---|
| IKR | BE | APRIL 2002 | |
| Scale: 1"=200' | Project No: 17371-00 | Report No: PRES002 | Drawing No: figure 3.1 |

17371-00(PRES002)GN-WA009 MAY 07/2002