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*Transmitted Via US Mail*

October 13, 1998

Mr. Tracy L. Blazicek, CHMM
Project Environmental Specialist
Licensing & Environmental Operations
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
P.O. Box 5224
Binghamton, New York 13902-5224

Re: 295 Court Street Property Subsurface Investigation
Binghamton, New York
BBL Project #: 0130.13036

Dear Mr. Blazicek:

Please find attached a copy of the draft 295 Court Street Property Subsurface Investigation Report. Upon receipt of NYSEG's final comments, Blasland, Bouck & Lee, Inc. (BBL) will incorporate the comments and prepare a final version of the report.

If you have any questions or comments, please feel free to contact me.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Scott T. Saroff, C.P.G.
Vice President

Attachment

cc: Frederick J. Kirschenheiter, P.E., Blasland, Bouck & Lee, Inc.
Keith A. White, P.G., Blasland, Bouck & Lee, Inc.



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*Transmitted Via US Mail* **DRAFT**

October 13, 1998

Mr. Tracy Blazicek, CHMM
Project Environmental Specialist
Licensing & Environmental Operations
New York State Electric & Gas Corporation
Corporate Drive, Kirkwood Industrial Park
PO Box 5224
Binghamton, New York 13902-5224

Re: 295 Court Street Property
Subsurface Investigation
Binghamton, New York
BBL Project # 0130.13036 #2

Dear Mr. Blazicek:

This letter presents the findings of the subsurface investigation conducted at the 295 Court Street Property, located approximately 150 feet east of the Court Street Former Manufactured Gas Plant (MGP) Site, in Binghamton, New York. Blasland, Bouck & Lee, Inc. (BBL) conducted this off-site investigation with the permission of the property owners, the 295 Court Street Associates, L.L.C., and at the request of the New York State Electric & Gas Corporation (NYSEG). The intent of the investigation was to characterize the subsurface conditions at this property not specifically addressed by the Supplemental Remedial Investigation (SRI) of the Court Street Site (BBL, June 1998).

The investigation was conducted in accordance with two work plans. A task-specific letter work plan dated November 11, 1997, was submitted to NYSEG and approved by the New York Sate Department of Environmental Conservation (NYSDEC, March 1998). In addition, the investigation followed the applicable provisions of the more extensive NYSDEC-approved work plan for conducting the Supplemental Remedial Investigation/Feasibility Study (SRI/FS) for the Court Street Former MGP Site (BBL, June 1997).

BBL conducted the investigation at the 295 Court Street Property between May 19th and June 5th, 1998. During that time, BBL installed and sampled three monitoring wells to investigate subsurface soil conditions and groundwater quality. The locations of the three new monitoring wells, identified as MW98-15S, MW98-16S and MW98-16D, are presented on Figure 1. The first well (MW98-15S), a water-table monitoring well, was installed near the south-west corner of the property, in a location considered most likely to show possible impacts from the former Court Street MGP operations. This property's historic features, as well as those of the surrounding area, are recorded on Sanborn fire insurance maps (dated 1891, 1898, and 1918), and have been overlaid on Figure 1. A review of the maps shows many former MGP features near but beyond the western property boundary. The new well location actually falls within the mapped footprint of the Binghamton Light, Heat & Power Company building, identified under a string of company names

(Binghamton Gas and Electric Company [1891], Binghamton Electric Company [1898], and Binghamton Light, Heat & Power Company [1918]). That building no longer exists, however, and a newer building encompasses most of the property.

A shallow and deep well cluster (MW98-16S & D) were installed near the City of Binghamton Ranney Well, near the eastern edge of the property. Though not currently utilized, the Ranney well is classified by the city as an emergency potable water supply. NYSEG is currently working toward an agreement with the city that would result in the closure of the Ranney Well. The locations of the Ranney Well building, and its fanned lateral intake lines are shown on Figure 1. The well cluster location was chosen to characterize ground-water quality near the Ranney Well.

A second monitoring well cluster proposed in the letter work plan was completed during the SRI. In the course of the SRI, it was discovered that the planned boring locations of MW97-14S and MW97-14D were actually located on property owned by Conrail; therefore, the MW97-14 well cluster was installed during the SRI to coincide with other work performed on Conrail property at that time. Information concerning the installation and sampling of that well cluster is presented in the SRI.

The remainder of this letter includes a brief review of the pertinent property geology, a discussion of the subsurface investigation and well installation, and a review of the laboratory analytical results of the soil and water samples submitted.

## Geology

In the course of the SRI of the Court Street Former MGP Site, BBL investigated and mapped the local subsurface geology. Data acquired at the former MGP site, and compiled from a number of local offsite sources for production of the SRI report, were sufficient to develop a stratigraphic interpretation of subsurface soils beyond the former MGP site, including the area of the 295 Court Street Property. The following geologic overview is based on the SRI's findings and subsurface data collected during this investigation

Shale bedrock underlies the area at a depth greater than 80 feet, and is overlain by a mantle of dense till that consists of varying amounts of sand and gravel, supported by a silt and clay matrix. Together, the bedrock and till form the base of the local ground-water flow system due to their insignificant capacity to transmit groundwater. Beneath the 295 Court Street Property, the till is thought to remain roughly level, as shallow as 40 feet below grade in the extreme southwest corner, and as deep as 43 feet below grade at the new boring location MW98-16D.

A sand and gravel unit overlies the till and is the primary water-bearing unit beneath the property. Though somewhat variable, the stratified sediments comprising the unit are reasonably viewed as a single hydrostratigraphic unit with a hydraulic conductivity estimated at over 300 feet per day. The unit appears to be laterally continuous across the property, with an expected thickness of approximately 30 feet.

To the west of the property, a layer of silt overlies the sand and gravel in a mound that overlaps the 295 Court Street Property, and tapers out to the east before reaching the Ranney Well. The shallowest occurrence of the silt had been observed at 6 feet below grade, just west of the property at 293 Court Street (Figure 1). The convex shape of the silt surface, coupled with the unit's low hydraulic conductivity, may cause localized mounding of the water table in the western portion of the property.

The SRI determined that the groundwater flow direction in the sand and gravel unit is toward the river. Where the silt unit overlies the sand and gravel unit, the mounded groundwater appears to flow radially from the silt

unit. The groundwater elevation data from the newly installed wells (contained in boring logs in Attachment 1) reasonably agree with the flow patterns identified in the SRI.

**295 Court Street Property Investigation Activities**

The three monitoring wells were installed in completed soil borings that were advanced using a hollow-stem auger. MW98-15S and MW98-16D were sampled continuously using two-foot-long split-spoon samplers. A BBL geologist examined each soil sample and recorded notes and observations in a field book, that were later finalized in subsurface boring logs (see Attachment 1). A portion of each sample was jarred for headspace analysis with a photoionization detector to evaluate the gross concentration of volatile organic compounds (VOCs) present at each depth interval.

Upon completion of the soil boring, each well was installed using two-inch diameter polyvinyl chloride (PVC) screens (0.01-inch slot size) and risers. Each screen was surrounded in a sandpack, and sealed above with bentonite. Each well was completed with a flush-mount steel curb-box, encased in cement. The specifications of each well are presented on the subsurface boring logs (Attachment 1). The site of each new monitoring well was surveyed by a licenced surveyor of Hawk Engineering, Inc., of Binghamton, New York. Survey data are contained in the boring logs, and the boring locations are presented on Figure 1.

During the boring of MW98-15S, black-stained soil with petroleum-like odors was encountered immediately upon penetrating the silt unit, nine feet below grade. The water table was encountered roughly a foot deeper, and the full extent of the silt unit, to 15 feet below grade, showed the same black-staining and odors. At 15.5 feet below grade, the sand and gravel unit was encountered. Droplets of a reddish-brown colored non-aqueous phase liquid (NAPL) were observed in the sand and gravel sample.

Although not required by the work plan, BBL collected a soil sample from MW98-15S at the request of NYSEG. That sample, consisting of the affected silt in the 9-to 11-foot interval, was submitted for analysis of Target Compound List (TCL) volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), and for Total Petroleum Hydrocarbons (TPH).

Before installing MW98-15S, the bottom of the borehole was filled with bentonite chips in order to seal off the sand and gravel unit below the well screen. The seal was necessary to ensure that the well would provide accurate water table elevation data. A ten-foot long PVC screen was installed from 5 to 15 feet below grade, roughly straddling the water table.

The borehole of MW98-16D was advanced west and slightly north of the Ranney Well. From 12 to 14 feet below grade, timbers and concrete were encountered, suggesting some variety of buried structure. After auguring through that structure, the sand and gravel unit was encountered, and groundwater rose in the augers to 9.5 feet below grade.

Below the buried structure, the sand and gravel unit extended from 14 to 44 feet below grade, and was saturated throughout. At 44 feet, the top of the till unit was encountered and auguring was discontinued. The work plan had called for screen placement near the top of the till, or over a noticeably affected portion of the sand and gravel unit. Since no affected areas were identified, a five-foot long PVC screen was installed from 38.5 to 43.5 feet below grade, just above the top of the till.

The borehole of MW98-16S, located three feet east of MW98-16D, was not sampled continuously because of its close proximity to MW98-16D. One split-spoon sample was taken from 10 to 12 feet below grade, and confirmed that the buried structure encountered in MW98-16D was laterally extensive at least as far as the new

boring. In accordance with the work plan, MW98-16S was installed to screen across the water table. Because the buried structure had initially confined groundwater below 14 feet, the ten-foot screen was installed from 7 to 17 feet below grade, in order to screen at least 4 feet of the water-bearing sand and gravel.

One week after installation of the new monitoring wells, each was developed in accordance with the SRI workplan. After another week, on June 5, 1998, each well was sampled for TCL VOCs and SVOCs, total and amenable cyanide, and for filtered and unfiltered Target Analyte List (TAL) inorganics. A peristaltic pump was used to purge the well while field parameters (temperature, pH, percent dissolved oxygen, turbidity and specific conductance) were monitored. After a minimum of three well volumes had been removed, turbidity had cleared, and all other field parameters had stabilized, the groundwater samples were collected. A blind duplicate sample was collected from MW98-15S and denoted MW-25 on the chain-of-custody form. Sample containers submitted for analysis of TCL VOCs were filled from a disposable bailer. The sample containers submitted for the remaining analyses were filled directly from the peristaltic-pump discharge.

**Equipment Decontamination and Materials Handling**

Before moving to a new drilling location, all non-dedicated drilling and sampling equipment that came in contact with subsurface materials was thoroughly cleaned according to the procedures presented in the Supplemental RI/FS Work Plan (BBL, June 1997).

All other investigation derived waste, including decontamination and purge water, soil cuttings, and disposable personal protective equipment, were contained in properly labeled 55-gallon drums, and staged at the Court Street Former MGP Site, in accordance with the Supplemental RI/FS Work Plan.

**Analytical Results**

The laboratory analyses of the soil and water samples were performed by Galson Laboratories, Inc., of East Syracuse, New York. The results of those analyses are presented in Attachment 2, and summarized in Tables 1 and 2. The ground-water results are summarized on Figure 1. The laboratory methods used to analyze each constituent group are presented in the table below.. Chain of custody forms are provided as Attachment 3.

**Methods of Laboratory Analysis**

| TCL VOCs | TCL SVOCs | Total and Dissolved Metals | Total Cyanide | TPH |
|---|---|---|---|---|
| NYSDEC ASP 95-1 | NYSDEC ASP 95-2 | USEPA SW846 6010/7000 | USEPA SW846 9010 | USEPA SW846 8015 |

**Soil**

The analytical results of the one soil sample collected at MW98-15S showed no detections of VOCs. Among the SVOCs detected, the highest concentration of any constituent was 5.1 milligrams per kilogram (mg/kg) of phenanthrene. The total of all polynuclear aromatic hydrocarbons (PAHs), a subset of SVOCs commonly found at MGP sites, accounted for all detected SVOCs, at a concentration of 20.9 mg/kg. An analysis of TPH was performed on the soil sample. Though none of the TPH standard constituents was identified (unleaded gasoline, kerosene, lube oil, or number two fuel oil), a concentration of 1,180 mg/kg of unknown petroleum hydrocarbons was found.

To determine whether the affected silt observed during drilling might be related to MGP byproducts, NYSEG collected a sample of NAPL from MW-13S on the former MGP site on June 16, 1998. Galson Laboratories analyzed that sample for TPH, and used a gas chromatograph/flame ionization detector (GC/FID) to compare the TPH results of the NAPL with the TPH results from the MW98-15S soil sample. The laboratory reported that the GC/FID signature of the soil sample did not match the GC/FID signature of the NAPL from MW-13S.

**Water**

The only VOCs detected in the MW98-16 well cluster ground-water samples were chlorinated solvents. Chloroform was detected at 1 microgram per liter ($\mu$g/L) in MW98-16D. The compound 1,1,1-trichloroethane was detected in both the deep and shallow well, at 12 and 3 $\mu$g/L respectively. The presence of chlorinated solvents has been documented throughout the area, and during the SRI, similar solvent concentrations were found in monitoring wells north and hydraulically upgradient of the Former MGP site and the 295 Court Street Property ( e.g. MW97-14D).

In MW98-15S, ethylbenzene was the only VOC detected in the primary sample, at 250 $\mu$g/L. In the duplicate sample (MW-25, identified as MW98-15S DUP) an ethylbenzene concentration of 240 $\mu$g/L was detected, with lesser concentrations of benzene and total xylenes. In the duplicate, the total concentration of all detected VOCs was 268 $\mu$g/L.

The results of the SVOCs analysis of groundwater showed only one detection, in the MW98-16 well cluster. A plasticizer and common sampling laboratory contaminant, bis(2-ethylhexyl) phthalate, was detected in each well, at 2 $\mu$g/L in the deep well, and 9 $\mu$g/L in the shallow well. No PAHs were detected in the well cluster. By comparison, in MW98-15S, a total of 1,031 $\mu$g/L PAHs were detected, with naphthalene the most abundant (450 $\mu$g/L in the duplicate), followed by 2-methylnaphthalene (300 $\mu$g/L in the duplicate), and acenaphthene (130 $\mu$g/L in the primary sample).

The analysis of total cyanide found no detectable concentrations of the analyte in the MW98-16 well cluster. In MW98-15S, total cyanide was detected at estimated concentrations of 17.9 $\mu$g/L and 20.5 $\mu$g/L in the primary and duplicate samples, respectively. Analyses for amenable cyanide were not conducted due to an error in the completion of the chain-of-custody form.

The results of the TAL inorganics analyses indicated 15 constituents at varying concentrations, detected as either total, dissolved, or in both analyses. Several analytes were observed to have slightly higher concentrations in the dissolved (field-filtered) sample, than in the total (unfiltered) sample. In those cases, the percent difference between the total and dissolved concentrations was within the laboratory-instrument tolerances.

**Summary of Findings**

A number of constituents were detected in the soil and groundwater samples analyzed. PAHs and unidentified petroleum hydrocarbons were detected in the one soil sample analyzed. PAHs are naturally occurring and are ubiquitous in the environment. PAHs are also associated with byproducts of MGP operations; however, the TPH analyses performed on the soil sample analyzed suggest that the source of the PAHs in the sample is not related to the former MGP. Various constituents were detected in the ground-water samples analyzed. A number of these constituents are either naturally occurring, or are not typically associated with MGP operations.

If the subsurface soils and groundwater are not disturbed, then exposure to the constituents detected in the samples analyzed during this investigation is not expected to occur provided that:

- No subsurface structures (e.g., sumps, basements, etc.) exist on the property, and
- Groundwater is not used for potable purposes.

If you have any questions regarding the information presented herein, or require additional information, please feel free to contact me at (315) 446-9120.

**References**

Blasland, Bouck & Lee, Inc. (BBL), 1996. *Task II Remedial Investigation Report. Former Manufactured Gas Plant Site. Court Street, Binghamton, New York.* New York State Electric and Gas Corporation, June 1996.

Blasland, Bouck & Lee, Inc., 1997. *Work Plan for Conducting a Supplemental Remedial Investigation Feasibility Study at the Court Street Site, Binghamton, New York.* New York State Electric and Gas Corporation, June 1997.

Blasland, Bouck & Lee, Inc., 1997. Letter from Frederick J. Kirschenheiter, P.E. to Thomas Suozzo, P.E. (NYSDEC) dated November 1997.

Blasland, Bouck & Lee, Inc., 1998. *Supplemental Remedial Investigation Report for the Court Street Site.* New York State Electric and Gas Corporation, June 1998.

New York State Department of Environmental Conservation, 1998. Letter from Thomas S. Suozzo, P.E. to Tracy L. Blazicek, CHMM (NYSEG) dated March 1998.

Sanborn Map and Publishing Co., 1887. *Map of Binghamton, New York.* Sanborn Map and Publishing Co., New York. May, 1887.

Sanborn-Perris Company, Ltd., 1891. *Map of Binghamton, New York.* Sanborn-Perris Company, Ltd., New York. June 1991.

Sanborn-Perris Company, Ltd., 1918. *Map of Binghamton, New York.* Sanborn-Perris Company, Ltd., New York.

Sincerely,

BLASLAND, BOUCK & LEE, INC.

Scott T. Saroff, C.P.G.
Vice President

cc: Frederick. J. Kirschenheiter, P.E., Blasland, Bouck & Lee, Inc.
Keith A. White, P.G., Blasland, Bouck & Lee, Inc.

Attachments

Attachments

Table 1 - Summary of Soil Analytical Results
Table 2 - Summary of Ground-Water Analytical Results

Figure 1 - Analytical Results of Selected Constituents in Ground Water

Attachment 1 - Subsurface Boring Logs
Attachment 2 - Laboratory Data Report
Attachment 3 - Chain-of-Custody Forms

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# Tables

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

**DRAFT**

| Constituents | MW98-15S (9 - 11') 5/18/98 FS |
|---|---|
| **Volatile Organic Compounds** | |
| 1,1,1-Trichloroethane | 0.12 U |
| 1,1,2,2-Tetrachloroethane | 0.12 U |
| 1,1,2-Trichloroethane | 0.12 U |
| 1,1-Dichloroethane | 0.12 UJ |
| 1,1-Dichloroethene | 0.12 U |
| 1,2-Dichloroethane | 0.12 U |
| 1,2-Dichloroethene (Total) | 0.12 U |
| 1,2-Dichloropropane | 0.12 U |
| 2-Butanone | 0.12 U |
| 2-Hexanone | 0.12 U |
| 4-Methyl-2-pentanone | 0.12 U |
| Acetone | 0.19 UJ |
| Benzene | 0.12 U |
| Bromodichloromethane | 0.12 U |
| Bromoform | 0.12 U |
| Bromomethane | 0.12 U |
| Carbon Disulfide | 0.12 U |
| Carbon Tetrachloride | 0.12 U |
| Chlorobenzene | 0.12 U |
| Chloroethane | 0.12 U |
| Chloroform | 0.12 U |
| Chloromethane | 0.12 U |
| cis-1,3-Dichloropropene | 0.12 U |
| Dibromochloromethane | 0.12 U |
| Ethylbenzene | 0.12 U |
| Methylene chloride | 0.12 U |
| Methyltertbutylether | 0.12 U |
| Styrene | 0.12 U |
| Tetrachloroethene | 0.12 U |
| Toluene | 0.12 U |
| trans-1,3-Dichloropropene | 0.12 U |
| Trichloroethene | 0.12 U |
| Vinyl chloride | 0.12 U |
| Xylenes, Total | 0.12 U |
| **Semivolatile Organic Compounds** | |
| 1,2,4-Trichlorobenzene | 0.41 U |
| 1,2-Dichlorobenzene | 0.41 U |
| 1,3-Dichlorobenzene | 0.41 U |
| 1,4-Dichlorobenzene | 0.41 U |
| 2,4,5-Trichlorophenol | 1.0 U |
| 2,4,6-Trichlorophenol | 0.41 U |
| 2,4-Dichlorophenol | 0.41 U |
| 2,4-Dimethylphenol | 0.41 U |
| 2,4-Dinitrophenol | 1.0 UJ |
| 2,4-Dinitrotoluene | 0.41 U |
| 2,6-Dinitrotoluene | 0.41 U |
| 2-Chloronaphthalene | 0.41 U |
| 2-Chlorophenol | 0.41 U |
| 2-Methylnaphthalene | 0.41 U |
| 2-Methylphenol | 0.41 U |
| 2-Nitroaniline | 1.0 U |

| Constituents | MW98-15S (9 - 11') 5/18/98 FS |
|---|---|
| **Semivolatile Organic Compounds** | |
| 2-Nitrophenol | 0.41 U |
| 3,3'-Dichlorobenzidine | 0.41 UJ |
| 3-Nitroaniline | 1.0 U |
| 4,6-Dinitro-2-methylphenol | 1.0 U |
| 4-Bromophenyl phenyl ether | 0.41 U |
| 4-Chloro-3-methylphenol | 0.41 U |
| 4-Chloroaniline | 0.41 U |
| 4-Chlorophenyl-phenylether | 0.41 U |
| 4-Methylphenol | 0.41 U |
| 4-Nitroaniline | 1.0 U |
| 4-Nitrophenol | 1.0 UJ |
| Acenaphthene | **2.7** |
| Acenaphthylene | 0.41 U |
| Anthracene | **1.6** |
| Benzo(a)anthracene | **1.4 J** |
| Benzo(a)pyrene | 1.2 UJ |
| Benzo(b)fluoranthene | 1.2 UJ |
| Benzo(ghi)perylene | 0.13 UJ |
| Benzo(k)fluoranthene | 0.54 UJ |
| Bis(2-chloroethoxy) methane | 0.41 U |
| Bis(2-chloroethyl) ether | 0.41 U |
| Bis(2-ethylhexyl) phthalate | 0.41 UJ |
| Bis(2-chloroisopropyl) ether | 0.41 U |
| Butyl benzyl phthalate | 0.41 UJ |
| Carbazole | 0.41 U |
| Chrysene | **1.3 J** |
| Di-n-butyl phthalate | 0.41 U |
| Di-n-octyl phthalate | 0.81 UJD |
| Dibenzo(a,h)anthracene | 0.81 UJD |
| Dibenzofuran | 0.41 U |
| Diethyl phthalate | 0.41 U |
| Dimethyl phthalate | 0.41 U |
| Fluoranthene | **2.4** |
| Fluorene | **1.6** |
| Hexachlorobenzene | 0.41 U |
| Hexachlorobutadiene | 0.41 U |
| Hexachlorocyclopentadiene | 0.41 U |
| Hexachloroethane | 0.41 U |
| Indeno(1,2,3-cd)pyrene | 0.12 UJ |
| Isophorone | 0.41 U |
| N-Nitroso-Di-n-propylamine | 0.41 U |
| N-nitrosodiphenylamine | 0.41 U |
| Naphthalene | 0.41 U |
| Nitrobenzene | 0.41 U |
| Pentachlorophenol | 1.0 U |
| Phenanthrene | **5.1** |
| Phenol | 0.41 U |
| Pyrene | **4.8 D** |
| **Total Petroleum Hydrocarbons** | |
| Unknown | **1,180** |

TABLE I

SUMMARY OF SOIL ANALYTICAL RESULTS

DRAFT

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

General Notes:

All concentrations in millograms per kilogram (mg/kg); equivalent to parts per million (ppm).
FS = Primary field sample.
DUP = Duplicate field sample.
-- = Indicates that the compound was not analyzed for.

Data Qualifiers

D = Concentrations are based on a diluted sample analysis.
J = The compound was positively identified; however, the associated numerical values is an estimated concentration only.
U = The compound was analyzed for but not detected. The associated numerical value is the compound quantitation limit.
UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is approximate and may or may not represent the actual limit of quantitation.
UJD = The compound was not detected above the reported sample quantitation limit; however, the reported limit is approximate and may or may not represent the actual limit of quantitation. Concentrations is based on a diluted sample analysis.

TABLE 2

DRAFT

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

| | MW98-15S 6/5/98 FS | MW98-15S 6/5/98 DUP | MW98-16D 6/5/98 FS | MW98-16S 6/5/98 FS |
|---|---|---|---|---|
| **Volatile Organic Compounds** | | | | |
| 1,1,1-Trichloroethane | 100 U | 20 U | **12** | **3.0 J** |
| 1,1,2,2-Tetrachloroethane | 100 U | 20 UJ | 10 UJ | 10 UJ |
| 1,1-Dichloroethane | 100 U | 20 U | 10 U | 10 U |
| 1,1-Dichloroethene | 100 U | 20 U | 10 U | 10 U |
| 1,2-Dichloroethane | 100 U | 20 U | 10 U | 10 U |
| 1,2-Dichloroethene (Total) | 100 U | 20 UJ | 10 UJ | 10 UJ |
| 1,2-Dichloropropane | 100 U | 20 U | 10 U | 10 U |
| 2-Butanone | 100 U | 20 U | 10 U | 10 U |
| 2-Hexanone | 100 U | 20 UJ | 10 UJ | 10 UJ |
| 4-Methyl-2-pentanone | 100 U | 20 UJ | 10 UJ | 10 UJ |
| Acetone | 100 U | 20 U | 10 U | 10 U |
| Benzene | 100 U | **3.0 J** | 10 U | 10 U |
| Bromodichloromethane | 100 U | 20 U | 10 U | 10 U |
| Bromoform | 100 U | 20 U | 10 U | 10 U |
| Bromomethane | 100 U | 20 UJ | 10 UJ | 10 UJ |
| Carbon Disulfide | 100 U | 20 U | 10 U | 10 U |
| Carbon Tetrachloride | 100 U | 20 U | 10 U | 10 U |
| Chlorobenzene | 100 U | 20 U | 10 U | 10 U |
| Chloroethane | 100 U | 20 U | 10 U | 10 U |
| Chloroform | 100 U | 20 U | **1.0 J** | 10 U |
| Chloromethane | 100 UJ | 20 U | 10 U | 10 U |
| cis-1,3-Dichloropropene | 100 U | 20 U | 10 U | 10 U |
| Dibromochloromethane | 100 U | 20 U | 10 U | 10 U |
| Ethylbenzene | **250** | **240** | 10 U | 10 U |
| Methylene chloride | 100 U | 20 U | 10 U | 10 U |
| Styrene | 100 U | 20 U | 10 U | 10 U |
| Tetrachloroethene | 100 U | 20 U | 10 U | 10 U |
| Toluene | 100 U | 20 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | 100 U | 20 U | 10 U | 10 U |
| Trichloroethene | 100 U | 20 U | 10 U | 10 U |
| Vinyl chloride | 100 U | 20 U | 10 U | 10 U |
| Xylenes, Total | 100 U | **25** | 10 U | 10 U |
| Methyltertbutylether | 100 U | 20 U | 10 U | 10 U |
| **Semivolatile Organic Compounds** | | | | |
| 1,2,4-Trichlorobenzene | 10 U | 10 U | 10 U | 10 U |
| 1,2-Dichlorobenzene | 10 U | 10 U | 10 U | 10 U |
| 1,3-Dichlorobenzene | 10 U | 10 U | 10 U | 10 U |
| 1,4-Dichlorobenzene | 10 U | 10 U | 10 U | 10 U |
| 2,4,5-Trichlorophenol | 24 U | 24 U | 24 U | 24 U |
| 2,4,6-Trichlorophenol | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dichlorophenol | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dimethylphenol | 10 U | 10 U | 10 U | 10 U |
| 2,4-Dinitrophenol | 24 U | 24 U | 24 U | 24 U |
| 2,4-Dinitrotoluene | **2.0 J** | 10 U | 10 U | 10 U |
| 2,6-Dinitrotoluene | 10 U | 10 U | 10 U | 10 U |
| 2-Chloronaphthalene | 10 U | 10 U | 10 U | 10 U |
| 2-Chlorophenol | 10 U | 10 U | 10 U | 10 U |
| 2-Methylnaphthalene | **290 D** | **300 D** | 10 U | 10 U |
| 2-Methylphenol | 10 U | 10 U | 10 U | 10 U |
| 2-Nitroaniline | 24 U | 24 U | 24 U | 24 U |

TABLE 2

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

DRAFT

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

| | MW98-15S 6/5/98 FS | MW98-15S 6/5/98 DUP | MW98-16D 6/5/98 FS | MW98-16S 6/5/98 FS |
|---|---|---|---|---|
| 2-Nitrophenol | 10 U | 10 U | 10 U | 10 U |
| 3,3'-Dichlorobenzidine | 10 U | 10 U | 10 U | 10 U |
| 3-Nitroaniline | 24 U | 24 U | 24 U | 24 U |
| 4,6-Dinitro-2-methylphenol | 24 U | 24 U | 24 U | 24 U |
| 4-Bromophenyl phenyl ether | 10 U | 10 U | 10 U | 10 U |
| 4-Chloro-3-methylphenol | 10 U | 10 U | 10 U | 10 U |
| 4-Chloroaniline | 10 U | 10 U | 10 U | 10 U |
| 4-Chlorodiphenylether | 10 U | 10 U | 10 U | 10 U |
| 4-Methylphenol | 10 U | 10 U | 10 U | 10 U |
| 4-Nitroaniline | 24 U | 24 U | 24 U | 24 U |
| 4-Nitrophenol | **2.0 J** | 24 UJ | 24 UJ | 24 UJ |
| Acenaphthene | **130** | **120** | 10 U | 10 U |
| Acenaphthylene | **5.0 J** | 10 U | 10 U | 10 U |
| Anthracene | **17** | **13** | 10 U | 10 U |
| Benzo(a)anthracene | **4.0 J** | **2.0 J** | 10 U | 10 UJ |
| Benzo(a)pyrene | **3.0 J** | **1.0 J** | 10 U | 10 U |
| Benzo(b)fluoranthene | **2.0 J** | **1.0 J** | 10 UJ | 10 UJ |
| Benzo(ghi)perylene | 10 U | 10 U | 10 U | 10 U |
| Benzo(k)fluoranthene | **2.0 J** | 10 U | 10 U | 10 U |
| Bis(2-chloroethoxy) methane | 10 U | 10 U | 10 U | 10 U |
| Bis(2-chloroethyl) ether | 10 U | 10 U | 10 U | 10 U |
| Bis(2-chloroisopropyl) ether | 10 U | 10 U | 10 U | 10 U |
| Bis(2-ethylhexyl) phthalate | **1.0 J** | 10 UJ | **2.0 J** | **9.0 J** |
| Butyl benzyl phthalate | 10 U | 10 U | 10 U | 10 U |
| Carbazole | 10 U | 10 U | 10 U | 10 U |
| Chrysene | **3.0 J** | **2.0 J** | 10 U | 10 U |
| Di-n-butyl phthalate | 10 U | 10 U | 10 U | 10 U |
| Di-n-octyl phthalate | 10 UJ | 10 UJ | 10 UJ | 10 UJ |
| Dibenzo(a,h)anthracene | 10 U | 10 U | 10 U | 10 U |
| Dibenzofuran | **4.0 J** | **4.0 J** | 10 U | 10 U |
| Diethyl phthalate | 10 U | 10 U | 10 U | 10 U |
| Dimethyl phthalate | 10 U | 10 U | 10 U | 10 U |
| Fluoranthene | **13** | **9.0 J** | 10 U | 10 U |
| Fluorene | **50** | **44** | 10 U | 10 U |
| Hexachlorobenzene | 10 U | 10 U | 10 U | 10 U |
| Hexachlorobutadiene | 10 U | 10 U | 10 U | 10 U |
| Hexachlorocyclopentadiene | 10 U | 10 U | 10 U | 10 U |
| Hexachloroethane | **3.0 J** | 10 U | 10 U | 10 U |
| Indeno(1,2,3-cd)pyrene | 10 U | 10 U | 10 U | 10 U |
| Isophorone | 10 U | 10 U | 10 U | 10 U |
| N-Nitroso-Di-n-propylamine | 10 U | 10 U | 10 U | 10 U |
| N-nitrosodiphenylamine | 10 U | 10 U | 10 U | 10 U |
| Naphthalene | **420 D** | **450 D** | 10 U | 10 U |
| Nitrobenzene | 10 U | 10 U | 10 U | 10 U |
| Pentachlorophenol | 24 U | 24 U | 24 U | 24 U |
| Phenanthrene | **76** | **64** | 10 U | 10 U |
| Phenol | 10 U | 10 U | 10 U | 10 U |
| Pyrene | **16** | **11** | 10 U | 10 U |

TABLE 2

DRAFT

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

| | MW98-15S 6/5/98 FS | MW98-15S 6/5/98 DUP | MW98-16D 6/5/98 FS | MW98-16S 6/5/98 FS |
|---|---|---|---|---|
| Inorganics | | | | |
| Aluminum | 1,530 | 1,400 | 265 | 40 U |
| Aluminum, Dissolved | 40 U | 40 U | 40 U | 40 U |
| Antimony | 7.0 UJ | 7.0 UJ | 7.0 UJ | 7.0 UJ |
| Antimony, Dissolved | 7.0 UJ | 7.0 UJ | 7.0 UJ | 7.0 UJ |
| Arsenic | 20.4 | 23 | 3.0 U | 3.0 U |
| Arsenic, Dissolved | 25.6 | 26.6 | 4.2 B | 3.0 U |
| Barium | 205 | 214 | 103 B | 62.1 B |
| Barium, Dissolved | 212 | 222 | 102 B | 63.1 B |
| Beryllium | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Beryllium, Dissolved | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Cadmium | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Cadmium, Dissolved | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Calcium | 75,100 | 77,700 | 132,000 | 108,000 |
| Calcium, Dissolved | 80,600 | 83,500 | 135,000 | 111,000 |
| Chromium | 2.0 U | 2.2 B | 2.0 U | 2.3 B |
| Chromium, Dissolved | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Cobalt | 2.0 U | 2.0 B | 2.0 U | 2.0 U |
| Cobalt, Dissolved | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Copper | 21.7 B | 23.6 B | 2.0 U | 2.0 U |
| Copper, Dissolved | 2.0 U | 2.0 U | 5.9 B | 2.0 U |
| Iron | 8,700 | 9,000 | 354 | 50 U |
| Iron, Dissolved | 7,060 | 7,780 | 50 U | 50 U |
| Lead | 5.8 | 3.2 | 2.0 U | 2.0 U |
| Lead, Dissolved | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Magnesium | 8,680 | 8,890 | 24,000 | 17,900 |
| Magnesium, Dissolved | 8,740 | 9,030 | 24,300 | 18,300 |
| Manganese | 1,720 | 1,790 | 105 | 132 |
| Manganese, Dissolved | 1,850 | 1,880 | 124 | 128 |
| Mercury | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Mercury, Dissolved | 0.10 U | 0.10 U | 0.10 U | 0.10 U |
| Nickel | 4.3 B | 4.4 B | 2.0 U | 2.0 U |
| Nickel, Dissolved | 2.0 U | 2.0 U | 2.2 B | 2.0 U |
| Potassium | 5,240 | 5,320 | 2,700 B | 4,690 B |
| Potassium, Dissolved | 5,610 | 5,780 | 2,790 B | 5,000 B |
| Selenium | 3.0 R | 3.0 R | 3.0 R | 3.0 R |
| Selenium, Dissolved | 13.6 R | 11.9 R | 11.9 R | 14.7 R |
| Silver | 3.0 U | 3.0 U | 3.0 U | 3.0 U |
| Silver, Dissolved | 3.0 U | 3.0 U | 3.0 U | 3.0 U |
| Sodium | 109,000 | 108,000 | 112,000 | 78,200 |
| Sodium, Dissolved | 110,000 | 107,000 | 118,000 | 79,300 |
| Thallium | 6.0 U | 6.0 U | 6.0 U | 6.0 U |
| Thallium, Dissolved | 6.0 U | 6.0 U | 6.0 U | 6.0 U |
| Vanadium | 2.4 B | 2.2 B | 2.0 U | 2.0 U |
| Vanadium, Dissolved | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Zinc | 17.1 B | 20.4 | 3.0 U | 3.0 U |
| Zinc, Dissolved | 3.0 U | 3.0 U | 3.0 U | 3.0 U |
| Cyanide, Total | 17.9 J | 20.5 J | 10 UJ | 10 UJ |

TABLE 2

DRAFT

SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

295 COURT STREET PROPERTY INVESTIGATION

BINGHAMTON, NEW YORK

General Notes:

All concentrations are reported in micrograms per liter (ug/L); equivalent to parts per billion (ppb).
FS = Primary field sample.
DUP = Duplicate field sample.

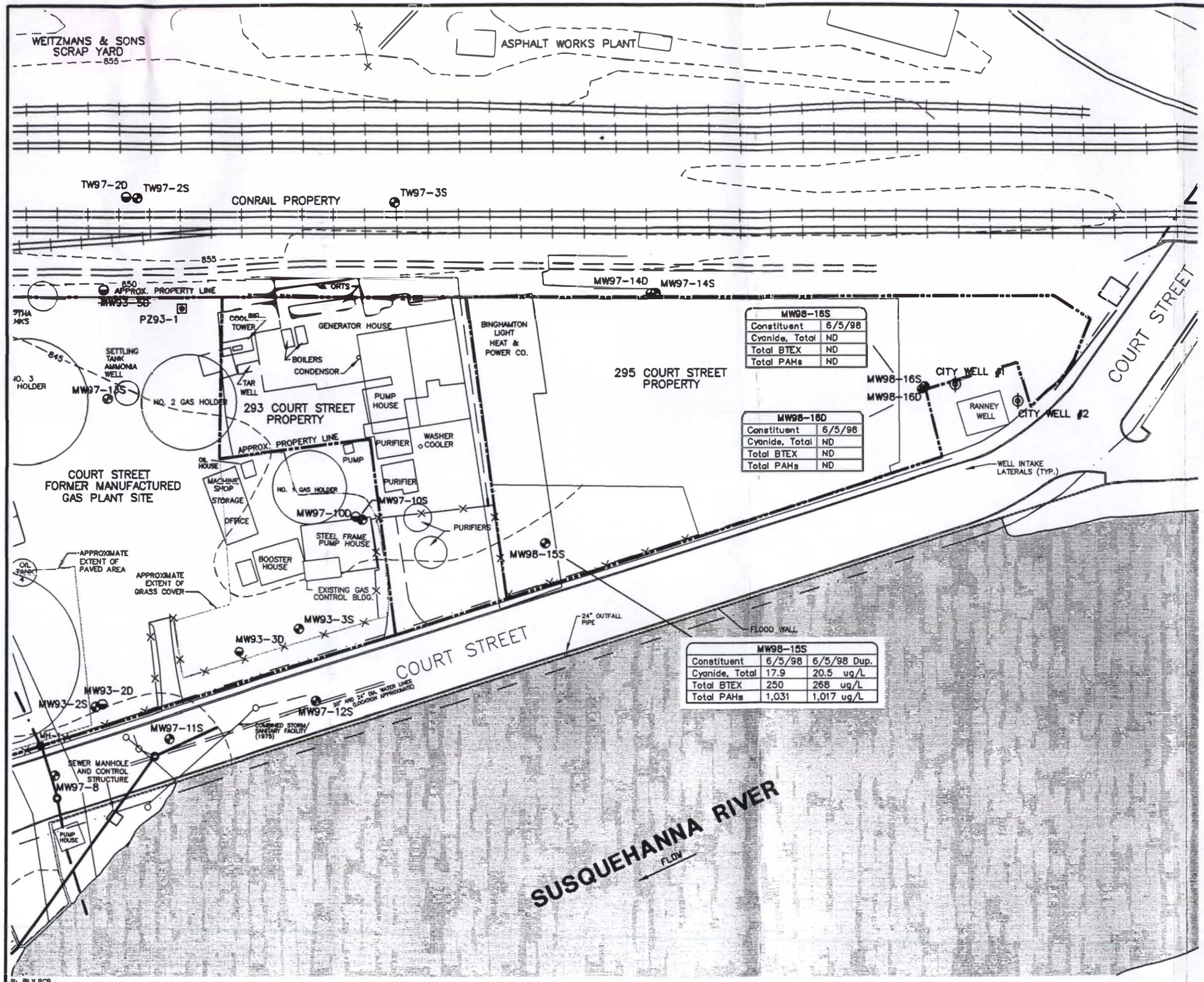
Data Qualifiers

B = The reported value was obtained from a reading less than the contract required detection limit (CRDL), but greater than or equal to the instrument detection limit.
D = Concentrations is based on a diluted sample analysis.
J = The compound was positively identified; however, the associated numerical value is an estimated concentration only.
U = The compound was analyzed for but not detected. The associated numerical value is the compound quantitation limit.
UJ = The compound was not detected above the reported sample quantitation limit; however, the reported limit is approximate and may or may not represent the actual limit of quantitation.
R = The compound result was rejected due to failed quality assurance.

Criteria Notes:

a = Value listed applies to the sum of these substances.
c = Value listed applies to both the cis, and trans isomers individually.
d = Value listed applies to each isomer individually.
e = Value listed applies to the sum of the isomers.
G = Guidance Value, not legally enforceable.
h = Iron and manganese criterion is 300 ug/L individually and 500 ug/L for the sum of iron and manganese concentrations.
L = Applies to total cyanide.
NA = There is no standard or guidance value for this substance.
ND = Non-Detectable Concentration.

# Figure




P: BLX.PCP
L: ON=*, OFF=REF
10/8/98 SYR-DIV54-RCB PGL
13038007/13038C02.DWG

## LEGEND

- FLOOD WALL
- RAILROAD TRACK
- FENCE
- RIGHT-OF-WAY LINE (APPROXIMATE)
- PROPERTY LINES (APPROXIMATE)
- SEWER LINE LOCATION
- SURFACE ELEVATION CONTOUR (FT. AMSL)
- HISTORIC LOCATION
- MONITORING WELL (SHALLOW)
- MONITORING WELL (DEEP)
- PIEZOMETER
- CITY MONITORING WELL

| MW98-16S | |
|---|---|
| Constituent | 6/5/98 |
| Cyanide, Total | ND |
| Total BTEX | ND |
| Total PAHs | ND |

— SAMPLE DATE
— CONCENTRATIONS ARE ug/L (ppb)
ND = NOT DETECTED
DUP = DUPLICATE SAMPLE

NOTES:

1. HISTORIC LOCATIONS ARE APPROXIMATE.
2. BASE MAP PROVIDED BY NYSEG ON JUNE 12, 1997.
3. SURFACE ELEVATIONS DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, FLOWN DECEMBER 2, 1973 AND MAPPED APRIL 1, 1974.
4. STORM SEWER LOCATION DIGITIZED FROM CITY OF BINGHAMTON MAP, SHEET 303, ENTITLED: PRELIMINARY REPORT, COMPREHENSIVE STORM DRAINAGE, EXISTING FACILITIES. PREPARED BY VERNON O. SHUMAKER, CONSULTING ENGINEER, VESTAL, NEW YORK, DATE NOT PROVIDED.
5. ALL MONITORING WELL, CITY WELL, AND TEMPORARY MONITORING WELL LOCATIONS SURVEYED BY HAWK ENGINEERING, P.C., BINGHAMTON, N.Y.

DRAFT

0 80' 160'

GRAPHIC SCALE

NEW YORK STATE ELECTRIC & GAS CORP.
BINGHAMTON, NEW YORK

295 COURT STREET PROPERTY INVESTIGATION

# ANALYTICAL RESULTS OF SELECTED CONSTITUENTS IN GROUND WATER

BBL BLASLAND, BOUCK & LEE, INC. engineers & scientists

FIGURE 1

# Attachment 1 -

# Subsurface Boring Logs

BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

**Date Start/Finish:** 5/19/98 / 5/19/98
**Drilling Company:** MAXIM Technologies, Inc.
**Driller's Name:** Rodney Bush
**Drilling Method:** Hollow-Stemmed Auger

**Auger Size:** ID 4.25 in.
**Rig Type:** CME 55
**Spoon Size:** 2 and 3 in.

**Northing:** 766964.26256
**Easting:** 1006809.38656
**Well Casing:** 842.35 feet

**Borehole Depth:** 17 ft.
**Ground Surface:** 842.58 feet

**Geologist:** Michael Cobb

**Well No: MW98-15S**

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

| DEPTH | ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|---|
| gs elevation 842.58 ft | | | | | | | | | | **GROUND SURFACE** | 9" diameter steel flushmount curb box. |
| | | | | | | | | | | Asphalt and concrete slab (pavement). | Cement surface seal. |
| | 840 | S-1 | 2" SS | 7<br>10<br>7<br>5 | 17 | <0.1 | 0.8 | | | Medium brown medium to coarse SAND, some fine Gravel, medium gravel in spoon tip, dry. (FILL) | Sand drain 1' to 2' bgs. |
| | | S-2 | 2" SS | 3<br>2<br>2<br>1 | 4 | 0.1 | 0.8 | | | Medium brown fine to medium SAND, some coarse Sand, little to trace fine Gravel, dry to moist. (FILL) | 2" diameter, Schedule 40 PVC well riser 0.2' to 5' bgs.<br>Bentonite chips 3' to 4' bgs. |
| 5 | | S-3 | 2" SS | 5<br>6<br>8<br>10 | 14 | 0.3 | 1.2 | | | Medium brown fine to coarse SAND, trace Silt, trace rootlets, dry to moist. (FILL) | |
| | 835 | S-4 | 3" SS | 30<br>53<br>7<br>9 | 60 | 0.9 | 1.0 | | | Medium brown fine to coarse SAND and fine to medium GRAVEL, some large concrete fragments, dry to moist. (FILL) | |
| 10 | | S-5 | 3" SS | 2<br>2<br>3<br>3 | 5 | 1.9 | 320 | | | Dark gray to black SILT, slight black staining, moist to wet, petroleum-like odor. | Granusil silica sand pack 4' to 15' bgs. |
| | | S-6 | 3" SS | 4<br>4<br>5<br>8 | 9 | 1.9 | 700 | | | Dark olive gray SILT, some fine Sand in seams, little black staining, soft, wet, petroleum-like odor. | 2" diameter, 0.01" slotted, Schedule 40 PVC well screen 5' to 15' bgs. |
| | 830 | S-7 | 2" SS | 3<br>4<br>4<br>3 | 8 | 1.8 | 8.1 | | | As above, dark olive gray SILT, little fine Sand, wet, petroleum-like odors. | |
| 15 | | | | | | | | | | | |

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engineers & scientists

**Remarks:**

Samples collected from 9-11' bgs submitted for analysis of VOCs, SVOCs, and TPH. bgs = below ground surface. NA = Not available. SS = Split-Spoon.

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 6/5/98 | 832.27 | 10.31 ▼ |
| | | |
| | | |

Project: 130.36.007
Script: nbblwell
Date: 10/12/98

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

**Well No: MW98-16S**

**Total Depth = 17 ft.**

| DEPTH / ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|
| 0 | S-8 2" SS | | 5 3 2 1 | 5 | 0.9 | 1161 | | | Fine to coarse SAND and fine GRAVEL, loose, wet, reddish-brown oily liquid throughout sample and pooling in spoon, strong petroleum-like odor. | Spoon-hole plugged with bentonite chips. |
| 5 | | | | | | | | | Bottom of spoons at 17' bgs. Bottom of boring at 15' bgs. | |
| 825 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 820 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 815 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 810 | | | | | | | | | | |
| 35 | | | | | | | | | | |

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**Remarks:**

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 8/5/98 | 832.27 | 10.31 ▼ |
| | | |
| | | |

Project: 130.38.007 Script: nbblwell Date: 10/12/98

**Date Start/Finish:** 5/21/98 / 5/21/98
**Drilling Company:** MAXIM Technologies, Inc.
**Driller's Name:** Rodney Bush
**Drilling Method:** Hollow-Stemmed Auger

**Auger Size:** ID 4.25 in.
**Rig Type:** CME 55

**Northing:** 787090.44712
**Easting:** 1007112.84029
**Well Casing:** 841.58 feet

**Borehole Depth:** 17 ft.
**Ground Surface:** 841.90 feet

**Geologist:** Michael Cobb

**Well No:** MW98-16S

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

| DEPTH / ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 in. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|
| gs elevation 841.90 ft. | | | | | | | | | **GROUND SURFACE** | 8" diameter steel flushmount curb box. |
| 840 | | | | | | | | | No sampling conducted. See the boring log of adjacent well MW98-16D for a stratigraphic description and sampling details. | Cement surface seal. |
| 5 | | | | | | | | | | Sand drain 0.7' to 3' bgs. |
| 835 | | | | | | | | | | 2" diameter, Schedule 40 PVC well riser 0.3' to 7' bgs. |
| 10 | | | | | | | | | | Bentonite chips 3' to 5' bgs. |
| 830 | | | | | | | | | | Granusil silica sand pack 5' to 17' bgs. |
| 15 | | | | | | | | | | 2" diameter, 0.01" slotted, Schedule 40 PVC well screen 7' to 17' bgs. |

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engineers & scientists

**Remarks:**

A confirmatory split-spoon taken from 10-12' bgs matched the corresponding sample from MW98-16D. Drillers report concrete layer from 11.9-12.7' bgs. bgs - below ground surface.

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 8/5/98 | 833.52 | 8.38 |
| | | |
| | | |

Project: 130.36.007
Script: nbbiwell
Date: 10/12/98

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

**Well No: MW98-18S**

**Total Depth = 17 ft.**

| DEPTH | ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 825 | | | | | | | | | | 2" diameter, 0.01" slotted, Schedule 40 PVC well screen 7' to 17' bgs. |
| 5 | 820 | | | | | | | | | Bottom of boring at 17' bgs. | |
| 10 | 815 | | | | | | | | | | |
| 15 | 810 | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |

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**Remarks:**

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 6/5/98 | 833.52 | 8.38 ▼ |
| | | |
| | | |

**Date Start/Finish:** 5/20/98 / 5/21/98
**Drilling Company:** MAXIM Technologies, Inc.
**Driller's Name:** Rodney Bush
**Drilling Method:** Hollow-Stemmed Auger

**Auger Size:** ID 4.25 in.
**Rig Type:** CME 55
**Spoon Size:** 2 and 3 in.

**Northing:** 767088.50563
**Easting:** 1007110.21662
**Well Casing:** 841.70 feet

**Borehole Depth:** 46 ft.
**Ground Surface:** 841.91 feet

**Geologist:** Michael Cobb

**Well No:** MW98-18D

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

| DEPTH | ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|---|
| gs elevation 841.91 ft | | | | | | | | | | **GROUND SURFACE** | 9" diameter steel flushmount curb box. |
| | | | | | | | | | | Asphalt. | Cement surface seal. |
| | 840 | S-1 3" SS | | 10 20 18 | 30 | 1.2 | 2.1 | | | Medium brown fine to coarse SAND, and fine GRAVEL, some medium Gravel, dry to moist. (FILL) | |
| | | S-2 3" SS | | 13 13 9 9 | 22 | 1.0 | 1.0 | | | Medium brown fine to coarse SAND, and fine to medium GRAVEL, angular to subangular, moist. (FILL) | Sand drain 0.7' to 3.5' bgs. |
| 5 | | S-3 3" SS | | 7 6 5 4 | 11 | 1.1 | 1.0 | | | | Type I Portland Cement/Bentonite Grout 3.5' to 32.5' bgs. |
| | 835 | S-4 3" SS | | 3 4 4 5 | 8 | 1.3 | 0.8 | | | Becoming very moist at 5.8' bgs. Trace coal-like fragments. Gravel is subrounded to subangular. (FILL) | |
| | | S-5 3" SS | | 2 2 5 6 | 7 | 2.0 | 1.0 | | | Brown SILT and fine SAND, little fine to coarse Gravel, trace black staining, grading to black SILT and fine SAND, little fine to medium Gravel, very moist. (FILL) | 2" diameter, Schedule 40 PVC well riser 0.2' to 38.5' bgs. |
| 10 | | S-6 3" SS | | 2 2 2 30 | 4 | 1.1 | 0.3 | | | Olive gray SILT and fine SAND, little medium to coarse Sand and fine Gravel, rounded to subrounded, wet. (perched water) (FILL) | |
| | 830 | S-7 3" SS | | NA 8 8 5 | 16 | 1.5 | 0.5 | | | Dense fill. Timber and cobble fragments lodged in spoon tip (10-12'). Drillers auger to 12.5' bgs. | |
| | | | | | | | | | | SILT and fine SAND, some concrete and wood fragments, moist. | |
| | | | | | | | | | | Red-brown SILT and fine SAND, some fine to medium Gravel, moist. | |
| | | S-8 2" SS | | 1 2 | 4 | 0.2 | 0.9 | | | Medium GRAVEL-sized concrete fragments, moist. | |
| 15 | | | | | | | | | | | |

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engineers & scientists

**Remarks:**

PID results below water table not shown due to moisture interference with instrument. bgs = below ground surface. NA = Not available. SS = Split-Spoon.

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 6/5/98 | 832.59 | 9.32 ▼ |
| | | |
| | | |

Project: 130.38.007
Script: nbblwell
Date: 10/12/98

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

**Well No: MW98-18D**

**Total Depth = 48 ft.**

| DEPTH | ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description | Well Construction |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | S-8 2" SS | | 2 3 | 4 | 0.2 | 0.9 | | | At 14' bgs. Medium brown medium SAND, little to some fine Sand, trace coarse Sand, wet. (Upon breaking through concrete at 14' bgs, water rises in borehole to 9.5' bgs.) | Type I Portland Cement/Bentonite Grout 3.5' to 32.5' bgs. |
| | 825 | S-9 2" SS | | 3 4 5 5 | 9 | 0.2 | | | | Medium brown medium to coarse SAND and fine GRAVEL, rounded to subrounded, wet. | |
| | | S-10 2" SS | | 9 8 9 10 | 17 | 0.2 | | | | | 2" diameter, Schedule 40 PVC well riser 0.3' to 38.5' bgs. |
| 20 | | S-11 2" SS | | 8 9 12 10 | 21 | 0.3 | | | | As above, some fine Sand, wet. | |
| | 820 | S-12 2" SS | | 5 7 8 7 | 15 | 0.5 | | | | | |
| 25 | | S-13 2" SS | | 7 10 7 8 | 17 | 0.5 | | | | As above. Possible seams of well sorted medium SAND throughout unit. Poor recovery prevents accurate stratigraphic placement. | |
| | 815 | S-14 2" SS | | 7 9 7 8 | 16 | 0.2 | | | | As above, with fine to medium GRAVEL and medium to coarse SAND, little fine SAND, wet. | |
| | | S-15 2" SS | | 6 5 5 6 | 10 | 0.3 | | | | | |
| 30 | | S-16 2" SS | | 13 5 4 5 | 9 | 0.5 | | | | | |
| | 810 | S-17 2" SS | | 9 7 6 5 | 13 | 0.3 | | | | | |
| | | S-18 2" SS | | 6 7 | 12 | 0.2 | | | | | Bentonite chips 32.5' to 35.0' bgs. |
| 35 | | | | | | | | | | | |

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

**Remarks:**

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 6/5/98 | 832.59 | 9.32 ▼ |
| | | |
| | | |

**Client:**
New York State Electric & Gas

**Location:**
295 Court Street Property,
Binghamton, New York

**Well No: MW98-18D**

**Total Depth = 46 ft.**

| DEPTH | ELEVATION | Sample Run Number | Sample/Int/Type | Blows/6 In. | N | Recovery (ft.) | PID (ppm) Headspace | Geotechnical Test | Geologic Column | Stratigraphic Description |
|---|---|---|---|---|---|---|---|---|---|---|
| | | S-18 2" SS | | 5 6 | 12 | 0.2 | | | | |
| | 805 | S-19 2" SS | | 7 9 18 12 | 27 | 2.0 | | | | Medium brown fine to medium SAND, no gravel, no silt, wet. |
| | | S-20 2" SS | | 8 7 6 4 | 13 | 1.8 | | | | As above, with little fine gravel.<br>Brown fine to medium SAND, trace coarse Sand, wet. |
| 40 | | S-21 2" SS | | 15 10 8 8 | 18 | 2.0 | | | | As above, a few seams with some fine subrounded gravel, wet. |
| | 800 | S-22 2" SS | | 14 10 9 9 | 19 | 2.0 | | | | |
| 45 | | S-23 2" SS | | 4 6 8 10 | 14 | 0.4 | | | | Light brown SILT, some coarse Sand and fine Gravel, little fine to medium Sand, wet. (TILL).<br>As above, light brown SILT, some fine to coarse Sand and fine Gravel, soft, wet. |
| | 795 | | | | | | | | | Bottom of spoons at 46' bgs. Bottom of boring at 44' bgs. |
| 60 | | | | | | | | | | |
| | 790 | | | | | | | | | |
| 55 | | | | | | | | | | |

**Well Construction**

- Granular silica sand pack 35.0' to 44.0' bgs.
- 2" diameter, 0.01" slotted, Schedule 40 PVC well screen 38.5' to 43.5' bgs.

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

**Remarks:**

**Saturated Zones**

| Date / Time | Elevation | Depth |
|---|---|---|
| 8/5/98 | 832.59 | 9.32 ⧫ |
| | | |
| | | |

# Attachment 2 -

# Laboratory Data Report

BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

# *Soil Analyses*

BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW98-15S (9-11)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) Soil Lab Sample ID: L43216-4

Sample wt/vol: 0.5 (g/mL) g Lab File ID: CB052806

Level: (low/med) LOW Date Received: 05/20/98

%Moisture: not dec. 19 Date Analyzed: 05/28/98

GC Column: RTX-5 ID: .32 (mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 120 | U |
| 74-83-9 | Bromomethane | 120 | U |
| 75-01-4 | Vinyl Chloride | 120 | U |
| 75-00-3 | Chloroethane | 120 | U |
| **75-09-2** | **Methylene Chloride** | **19** | **JB** |
| **67-64-1** | **Acetone** | **190** | |
| 75-15-0 | Carbon Disulfide | 120 | U |
| 75-35-4 | 1,1-Dichloroethene | 120 | U |
| 75-34-3 | 1,1-Dichloroethane | 120 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 120 | U |
| 1634-04-4 | Methyltertbutylether | 120 | U |
| 67-66-3 | Chloroform | 120 | U |
| 107-06-2 | 1,2-Dichloroethane | 120 | U |
| 78-93-3 | 2-Butanone | 120 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 120 | U |
| 56-23-5 | Carbon Tetrachloride | 120 | U |
| 75-27-4 | Bromodichloromethane | 120 | U |
| 78-87-5 | 1,2-Dichloropropane | 120 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 120 | U |
| 79-01-6 | Trichloroethene | 120 | U |
| 124-48-1 | Dibromochloromethane | 120 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 120 | U |
| 71-43-2 | Benzene | 120 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 120 | U |
| 75-25-2 | Bromoform | 120 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | U |
| 591-78-6 | 2-Hexanone | 120 | U |
| 127-18-4 | Tetrachloroethene | 120 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 120 | U |
| 108-88-3 | Toluene | 120 | U |
| 108-90-7 | Chlorobenzene | 120 | U |
| 100-41-4 | Ethylbenzene | 120 | U |
| 100-42-5 | Styrene | 120 | U |
| 1330-20-7 | Xylene (total) | 120 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW98-15S (9-11)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) Soil Lab Sample ID: L43216-4

Sample wt/vol: 0.5 (g/mL) g Lab File ID: CB052806

Level: (low/med) LOW Date Received: 05/20/98

%Moisture: not dec. 19 Date Analyzed: 05/28/98

GC Column: RTX-5 ID: .32 (mm) Dilution Factor: 10

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown Alkane | 12.94 | 1800 | J |
| 2. | | Unknown Alkane | 13.48 | 1100 | J |
| 3. | | Unknown Hydrocarbon | 13.63 | 1400 | J |
| 4. | | Unknown Alkane | 15.09 | 900 | J |
| 5. | | Unknown Alkane | 15.21 | 870 | J |
| 6. | | Unknown Alkane | 17.16 | 910 | J |
| 7. | | C-4 Substituted Benzene | 17.30 | 1100 | J |
| 8. | | Unknown Hydrocarbon | 17.39 | 830 | J |
| 9. | | Unknown Alkane | 17.68 | 820 | J |
| 10. | | Unknown Alkane | 19.16 | 1000 | J |
| 11. | | | | | |
| 12. | | | | | |
| 13. | | | | | |
| 14. | | | | | |
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| 16. | | | | | |
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| 22. | | | | | |
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| 24. | | | | | |
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| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW98-15S (9-11)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) SOIL Lab Sample ID: L43216-4

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EB061614

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/26/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 06/16/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 410 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 410 | U |
| 95-57-8 | 2-Chlorophenol | 410 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 410 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 410 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 410 | U |
| 95-48-7 | 2-Methylphenol | 410 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 410 | U |
| 106-44-5 | 4-Methylphenol | 410 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 410 | U |
| 67-72-1 | Hexachloroethane | 410 | U |
| 98-95-3 | Nitrobenzene | 410 | U |
| 78-59-1 | Isophorone | 410 | U |
| 88-75-5 | 2-Nitrophenol | 410 | U |
| 105-67-9 | 2,4-Dimethylphenol | 410 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 410 | U |
| 120-83-2 | 2,4-Dichlorophenol | 410 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 410 | U |
| 91-20-3 | Naphthalene | 410 | U |
| 106-47-8 | 4-Chloroaniline | 410 | U |
| 87-68-3 | Hexachlorobutadiene | 410 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 410 | U |
| 91-57-6 | 2-Methylnaphthalene | 410 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 410 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 410 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 1000 | U |
| 91-58-7 | 2-Chloronaphthalene | 410 | U |
| 88-74-4 | 2-Nitroaniline | 1000 | U |
| 131-11-3 | Dimethylphthalate | 410 | U |
| 208-96-8 | Acenaphthylene | 410 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 410 | U |
| 99-09-2 | 3-Nitroaniline | 1000 | U |
| 83-32-9 | Acenaphthene | 2700 | |

FORM I SV-I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW98-15S (9-11)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) SOIL Lab Sample ID: L43216-4

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EB061614

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/26/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 06/16/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 1000 | U |
| 100-02-7 | 4-Nitrophenol | 1000 | U |
| 132-64-9 | Dibenzofuran | 410 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 410 | U |
| 84-66-2 | Diethylphthalate | 410 | U |
| **86-73-7** | **Fluorene** | **1600** | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 410 | U |
| 100-01-6 | 4-Nitroaniline | 1000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 1000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 410 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 410 | U |
| 118-74-1 | Hexachlorobenzene | 410 | U |
| 87-86-5 | Pentachlorophenol | 1000 | U |
| **85-01-8** | **Phenanthrene** | **5100** | |
| **120-12-7** | **Anthracene** | **1600** | |
| 86-74-8 | Carbazole | 410 | U |
| 84-74-2 | Di-n-butylphthalate | 410 | U |
| **206-44-0** | **Fluoranthene** | **2400** | |
| **129-00-0** | **Pyrene** | **10000** | E |
| 85-68-7 | Butylbenzylphthalate | 410 | U |
| **56-55-3** | **Benzo(a)anthracene** | **1400** | |
| 91-94-1 | 3,3'-Dichlorobenzidine | 410 | U |
| **218-01-9** | **Chrysene** | **1300** | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 410 | U |
| 117-84-0 | Di-n-octylphthalate | 410 | U |
| **205-99-2** | **Benzo(b)fluoranthene** | **1200** | |
| **207-08-9** | **Benzo(k)fluoranthene** | **540** | |
| **50-32-8** | **Benzo(a)pyrene** | **1200** | |
| **193-39-5** | **Indeno(1,2,3-cd)pyrene** | **120** | J |
| 53-70-3 | Dibenzo(a,h)anthracene | 410 | U |
| **191-24-2** | **Benzo(g,h,i)perylene** | **130** | J |

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW98-15S (9-11)

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) SOIL Lab Sample ID: L43216-4

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EB061614

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: 19 decanted: (Y/N) N Date Extracted:05/26/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 06/16/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

Number TICS found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 000141-79-7 | 3-Penten-2-one, 4-methyl- | 3.93 | 5300 | JAB |
| 2. | 000123-42-2 | 2-Pentanone, 4-hydroxy-4-met | 4.96 | 1700 | JAB |
| 3. | 002051-30-1 | Octane, 2,6-dimethyl- | 7.42 | 1500 | J |
| 4. | | Unknown | 7.78 | 1500 | J |
| 5. | | Unknown Alkane | 7.98 | 1500 | J |
| 6. | | Unknown Alkane | 9.88 | 1500 | J |
| 7. | | Unknown cyclic hydrocarbon | 11.83 | 2400 | J |
| 8. | | Unknown | 12.28 | 3400 | J |
| 9. | | Unknown Alkane | 12.91 | 1500 | J |
| 10. | | Unknown Alkane | 13.20 | 1800 | J |
| 11. | | Unknown Alkane | 14.60 | 5800 | J |
| 12. | | Unknown | 15.76 | 4500 | J |
| 13. | | Unknown | 16.10 | 3000 | J |
| 14. | | Unknown cyclic hydrocarbon | 16.95 | 1800 | J |
| 15. | 003891-98-3 | Dodecane, 2,6,10-trimethyl- | 17.34 | 1800 | J |
| 16. | 001795-15-9 | Cyclohexane, octyl- | 18.32 | 2100 | J |
| 17. | 000544-76-3 | Hexadecane | 18.40 | 2800 | J |
| 18. | 002883-02-5 | n-Nonylcyclohexane | 19.45 | 1500 | J |
| 19. | | Unknown Alkane | 20.29 | 1500 | J |
| 20. | 001921-70-6 | Pentadecane, 2,6,10,14-tetra | 20.80 | 2100 | J |
| 21. | | | | | |
| 22. | | | | | |
| 23. | | | | | |
| 24. | | | | | |
| 25. | | | | | |
| 26. | | | | | |
| 27. | | | | | |
| 28. | | | | | |
| 29. | | | | | |
| 30. | | | | | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
MW98-15S (9-11) DL

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) SOIL Lab Sample ID: L43216-4DL

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EB061704

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/26/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 06/17/98

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 810 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 810 | U |
| 95-57-8 | 2-Chlorophenol | 810 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 810 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 810 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 810 | U |
| 95-48-7 | 2-Methylphenol | 810 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 810 | U |
| 106-44-5 | 4-Methylphenol | 810 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 810 | U |
| 67-72-1 | Hexachloroethane | 810 | U |
| 98-95-3 | Nitrobenzene | 810 | U |
| 78-59-1 | Isophorone | 810 | U |
| 88-75-5 | 2-Nitrophenol | 810 | U |
| 105-67-9 | 2,4-Dimethylphenol | 810 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 810 | U |
| 120-83-2 | 2,4-Dichlorophenol | 810 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 810 | U |
| 91-20-3 | Naphthalene | 810 | U |
| ~~106-47-8~~ | ~~4-Chloroaniline~~ | 810 | U |
| 87-68-3 | Hexachlorobutadiene | 810 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 810 | U |
| 91-57-6 | 2-Methylnaphthalene | 810 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 810 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 810 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 2000 | U |
| 91-58-7 | 2-Chloronaphthalene | 810 | U |
| 88-74-4 | 2-Nitroaniline | 2000 | U |
| 131-11-3 | Dimethylphthalate | 810 | U |
| 208-96-8 | Acenaphthylene | 810 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 810 | U |
| 99-09-2 | 3-Nitroaniline | 2000 | U |
| **83-32-9** | **Acenaphthene** | **2100** | **D** |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.
MW98-15S (9-11) DL

Lab Name: GALSON LABORATORIES Contract: BBL

Lab Code: Case No.: 1 SAS No.: SDG No.: L43216

Matrix: (soil/water) SOIL Lab Sample ID: L43216-4DL

Sample wt/vol: 30.4 (g/mL) g Lab File ID: EB061704

Level: (low/med) LOW Date Received: 05/20/98

% Moisture: 19 decanted: (Y/N) N Date Extracted: 05/26/98

Concentrated Extract Volume: 500 (uL) Date Analyzed: 06/17/98

Injection Volume: 1.0 (uL) Dilution Factor: 2.0

GPC Cleanup: (Y/N) Y pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 2000 | U |
| 100-02-7 | 4-Nitrophenol | 2000 | U |
| 132-64-9 | Dibenzofuran | 810 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 810 | U |
| 84-66-2 | Diethylphthalate | 810 | U |
| **86-73-7** | **Fluorene** | **1200** | **D** |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 810 | U |
| 100-01-6 | 4-Nitroaniline | 2000 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 2000 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 810 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 810 | U |
| 118-74-1 | Hexachlorobenzene | 810 | U |
| 87-86-5 | Pentachlorophenol | 2000 | U |
| **85-01-8** | **Phenanthrene** | **4000** | **D** |
| **120-12-7** | **Anthracene** | **1600** | **D** |
| 86-74-8 | Carbazole | 810 | U |
| 84-74-2 | Di-n-butylphthalate | 810 | U |
| **206-44-0** | **Fluoranthene** | **2900** | **D** |
| **129-00-0** | **Pyrene** | **4800** | **D** |
| 85-68-7 | Butylbenzylphthalate | 810 | U |
| **56-55-3** | **Benzo(a)anthracene** | **1300** | **D** |
| 91-94-1 | 3,3'-Dichlorobenzidine | 810 | U |
| **218-01-9** | **Chrysene** | **1100** | **D** |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 810 | U |
| 117-84-0 | Di-n-octylphthalate | 810 | U |
| **205-99-2** | **Benzo(b)fluoranthene** | **840** | **D** |
| **207-08-9** | **Benzo(k)fluoranthene** | **700** | **JD** |
| **50-32-8** | **Benzo(a)pyrene** | **1100** | **D** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 810 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 810 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 810 | U |

Software Version: 4.1<2.12>
Sample Name : L43216-4,10,1, Time : 6/22/98 12:52 PM
Sample Number: 5 MW98-15S (9-11) Study : BBL/310.14
Operator : DKF

Instrument : HP5 Channel : B A/D mV Range : 1000
AutoSampler : HP7673A
Rack/Vial : 0/5

Interface Serial # : NONE Data Acquisition Time: 6/22/98 03:42 AM
Delay Time : 0.00 min.
End Time : 49.99 min.
Sampling Rate : 1.2500 pts/sec

Raw Data File : C:\TC4\HP5B\H621005.RAW
Result File : C:\TC4\HP5B\H621005.RST
Inst Method : C:\TC4\HP5B\HP5PET from C:\TC4\HP5B\H621005.RST
Proc Method : C:\TC4\HP5B\TPH61198 from C:\TC4\HP5B\H621005.RST
Calib Method : C:\TC4\HP5B\TPH61198 from C:\TC4\HP5B\H621005.RST
Sequence File : C:\TC4\HP5B\062198.SEQ

Sample Volume : 1.0000 ul Area Reject : 0.000000
Sample Amount : 1.0000 Dilution Factor : 10.00

---

## ANALYSIS REPORT

PETROLEUM METHOD 8015 COLUMN: RTX-1 .53mm X 30M

| Component Name | Ret. Time [min] | Area | Conc. ug/mL |
|---|---|---|---|
| | 3.08 | 322590 | 0.32 |
| | 3.23 | 102898835 | 102.90 |
| | 5.56 | 14898 | 0.03 |
| TPH | 17.00 | 12971858 | 1095.19 |
| | | 116228181 | 1198.45 |

$1095.19 \times \frac{10}{9.25} \times \frac{1}{1.23} = 1180$ mg/kg (dry weight)

(Unknown hydrocarbon: Response factor = 1184; see Form 6)

Result: 1180 mg/kg (dry weight)

# *Groundwater Analyses*

BLASLAND, BOUCK & LEE, INC.
*engineers & scientists*

1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-15S

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-6

Sample wt/vol: 0.5 (g/mL) mL  Lab File ID: BB061504

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/15/98

GC Column: HP-624 ID: .2 (mm)  Dilution Factor: 10

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 100 | U |
| 74-83-9 | Bromomethane | 100 | U |
| 75-01-4 | Vinyl Chloride | 100 | U |
| 75-00-3 | Chloroethane | 100 | U |
| 75-09-2 | Methylene Chloride | 100 | U |
| 67-64-1 | Acetone | 100 | U |
| 75-15-0 | Carbon Disulfide | 100 | U |
| 75-35-4 | 1,1-Dichloroethene | 100 | U |
| 75-34-3 | 1,1-Dichloroethane | 100 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 100 | U |
| 1634-04-4 | Methyltertbutylether | 100 | U |
| 67-66-3 | Chloroform | 100 | U |
| 107-06-2 | 1,2-Dichloroethane | 100 | U |
| 78-93-3 | 2-Butanone | 100 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 100 | U |
| 56-23-5 | Carbon Tetrachloride | 100 | U |
| 75-27-4 | Bromodichloromethane | 100 | U |
| 78-87-5 | 1,2-Dichloropropane | 100 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 100 | U |
| 79-01-6 | Trichloroethene | 100 | U |
| 124-48-1 | Dibromochloromethane | 100 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | U |
| 71-43-2 | Benzene | 100 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 100 | U |
| 75-25-2 | Bromoform | 100 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | U |
| 591-78-6 | 2-Hexanone | 100 | U |
| 127-18-4 | Tetrachloroethene | 100 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | U |
| 108-88-3 | Toluene | 100 | U |
| 108-90-7 | Chlorobenzene | 100 | U |
| **100-41-4** | **Ethylbenzene** | **250** | |
| 100-42-5 | Styrene | 100 | U |
| 1330-20-7 | Xylene (total) | 100 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-98-15S

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-6

Sample wt/vol: 0.5 (g/mL) mL  Lab File ID: BB061504

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/15/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 10

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

Number TICS found: 10

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 000096-14-0 | Pentane, 3-methyl- | 4.13 | 150 | J |
| 2. | 000096-37-7 | Cyclopentane, methyl- | 5.54 | 220 | J |
| 3. | 000110-82-7 | Cyclohexane | 6.65 | 480 | J |
| 4. | 000108-87-2 | Cyclohexane, methyl- | 8.65 | 480 | J |
| 5. | | Trimethyl Benzene | 16.82 | 190 | J |
| 6. | | Unknown aromatic | 17.95 | 800 | J |
| 7. | | C-4 Substituted Benzene | 20.90 | 140 | J |
| 8. | 000091-20-3 | Naphthalene | 21.76 | 640 | J |
| 9. | | Naphthalene, methyl- | 23.71 | 190 | J |
| 10. | | Naphthalene, methyl- | 24.00 | 180 | J |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-16D

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-5

Sample wt/vol: 5  (g/mL) mL  Lab File ID: BB061108

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 1

Soil Extract Volume:  (uL)  Soil Aliquot Volume:  (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| **75-09-2** | **Methylene Chloride** | **2** | **JB** |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 1634-04-4 | Methyltertbutylether | 10 | U |
| **67-66-3** | **Chloroform** | **1** | **J** |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| **71-55-6** | **1,1,1-Trichloroethane** | **12** | |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

# VOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-98-16D

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-5

Sample wt/vol: 5  (g/mL) mL  Lab File ID: BB061108

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 1

Soil Extract Volume:  (uL)  Soil Aliquot Volume:  (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | No Volatiles Found | | | |
| 2. | | | | | |
| 3. | | | | | |
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1A

# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-16S

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-2

Sample wt/vol: 5  (g/mL) mL  Lab File ID: BB061106

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 1

Soil Extract Volume:  (uL)  Soil Aliquot Volume:  (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| 75-09-2 | Methylene Chloride | 10 | U |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 1634-04-4 | Methyltertbutylether | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| **71-55-6** | **1,1,1-Trichloroethane** | 3 | J |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

SAMPLE NO.

MW-98-16S

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-2

Sample wt/vol: 5  (g/mL) mL  Lab File ID: BB061106

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 1

Soil Extract Volume:  (uL)  Soil Aliquot Volume:  (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | No Volatiles Found | | | |
| 2. | | | | | |
| 3. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-25

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-1

Sample wt/vol: 2.5 (g/mL) mL  Lab File ID: BB061116

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624 ID: .2 (mm)  Dilution Factor: 2

Soil Extract Volume: (uL)  Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 20 | U |
| 74-83-9 | Bromomethane | 20 | U |
| 75-01-4 | Vinyl Chloride | 20 | U |
| 75-00-3 | Chloroethane | 20 | U |
| **75-09-2** | **Methylene Chloride** | **6** | **JB** |
| 67-64-1 | Acetone | 20 | U |
| 75-15-0 | Carbon Disulfide | 20 | U |
| 75-35-4 | 1,1-Dichloroethene | 20 | U |
| 75-34-3 | 1,1-Dichloroethane | 20 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 20 | U |
| 1634-04-4 | Methyltertbutylether | 20 | U |
| 67-66-3 | Chloroform | 20 | U |
| 107-06-2 | 1,2-Dichloroethane | 20 | U |
| 78-93-3 | 2-Butanone | 20 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 20 | U |
| 56-23-5 | Carbon Tetrachloride | 20 | U |
| 75-27-4 | Bromodichloromethane | 20 | U |
| 78-87-5 | 1,2-Dichloropropane | 20 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 20 | U |
| 79-01-6 | Trichloroethene | 20 | U |
| 124-48-1 | Dibromochloromethane | 20 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 20 | U |
| **71-43-2** | **Benzene** | **3** | **J** |
| 10061-02-6 | trans-1,3-Dichloropropene | 20 | U |
| 75-25-2 | Bromoform | 20 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 20 | U |
| 591-78-6 | 2-Hexanone | 20 | U |
| 127-18-4 | Tetrachloroethene | 20 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20 | U |
| 108-88-3 | Toluene | 20 | U |
| 108-90-7 | Chlorobenzene | 20 | U |
| **100-41-4** | **Ethylbenzene** | **240** | |
| 100-42-5 | Styrene | 20 | U |
| **1330-20-7** | **Xylene (total)** | **25** | |

1E

SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-98-25

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) Water Lab Sample ID: L43536-1

Sample wt/vol: 2.5 (g/mL) mL Lab File ID: BB061116

Level: (low/med) LOW Date Received: 06/05/98

%Moisture: not dec. Date Analyzed: 06/11/98

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 2

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Number TICS found: 10 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 000096-14-0 | Pentane, 3-methyl- | 4.02 | 140 | J |
| 2. | 000096-37-7 | Cyclopentane, methyl- | 5.47 | 210 | J |
| 3. | 000110-82-7 | Cyclohexane | 6.59 | 430 | J |
| 4. | 000108-87-2 | Cyclohexane, methyl- | 8.57 | 390 | J |
| 5. | | Trimethyl Benzene | 16.76 | 200 | J |
| 6. | | Unknown aromatic | 17.91 | 740 | J |
| 7. | | C-4 Substituted Benzene | 20.86 | 170 | J |
| 8. | 000091-20-3 | Naphthalene | 21.71 | 640 | J |
| 9. | | Naphthalene, methyl- | 23.66 | 210 | J |
| 10. | | Naphthalene, methyl- | 23.94 | 200 | J |
| 11. | | | | | |
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# VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TRIP BLANK

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) Water Lab Sample ID: L43536-9

Sample wt/vol: 5 (g/mL) mL Lab File ID: BB061105

Level: (low/med) LOW Date Received: 06/05/98

%Moisture: not dec. Date Analyzed: 06/11/98

GC Column: HP-624 ID: .2 (mm) Dilution Factor: 1

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 74-87-3 | Chloromethane | 10 | U |
| 74-83-9 | Bromomethane | 10 | U |
| 75-01-4 | Vinyl Chloride | 10 | U |
| 75-00-3 | Chloroethane | 10 | U |
| **75-09-2** | **Methylene Chloride** | 2 | JB |
| 67-64-1 | Acetone | 10 | U |
| 75-15-0 | Carbon Disulfide | 10 | U |
| 75-35-4 | 1,1-Dichloroethene | 10 | U |
| 75-34-3 | 1,1-Dichloroethane | 10 | U |
| 540-59-0 | 1,2-Dichloroethene (Total) | 10 | U |
| 1634-04-4 | Methyltertbutylether | 10 | U |
| 67-66-3 | Chloroform | 10 | U |
| 107-06-2 | 1,2-Dichloroethane | 10 | U |
| 78-93-3 | 2-Butanone | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | U |
| 56-23-5 | Carbon Tetrachloride | 10 | U |
| 75-27-4 | Bromodichloromethane | 10 | U |
| 78-87-5 | 1,2-Dichloropropane | 10 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 10 | U |
| 79-01-6 | Trichloroethene | 10 | U |
| 124-48-1 | Dibromochloromethane | 10 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | U |
| 71-43-2 | Benzene | 10 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 10 | U |
| 75-25-2 | Bromoform | 10 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | U |
| 591-78-6 | 2-Hexanone | 10 | U |
| 127-18-4 | Tetrachloroethene | 10 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | U |
| 108-88-3 | Toluene | 10 | U |
| 108-90-7 | Chlorobenzene | 10 | U |
| 100-41-4 | Ethylbenzene | 10 | U |
| 100-42-5 | Styrene | 10 | U |
| 1330-20-7 | Xylene (total) | 10 | U |

1E

SAMPLE NO.

TRIP BLANK

# VOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) Water  Lab Sample ID: L43536-9

Sample wt/vol: 5  (g/mL) mL  Lab File ID: BB061105

Level: (low/med) LOW  Date Received: 06/05/98

%Moisture: not dec.  Date Analyzed: 06/11/98

GC Column: HP-624  ID: .2 (mm)  Dilution Factor: 1

Soil Extract Volume:  (uL)  Soil Aliquot Volume:  (uL)

Number TICS found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | No Volatiles Found | | | |
| 2. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-15S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-6

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061804

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| **67-72-1** | **Hexachloroethane** | **3** | **J** |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| **91-20-3** | **Naphthalene** | **470** | **E** |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| ~~87-68-3~~ | ~~Hexachlorobutadiene~~ | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| **91-57-6** | **2-Methylnaphthalene** | **320** | **E** |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 24 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 24 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| **208-96-8** | **Acenaphthylene** | **5** | **J** |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 24 | U |
| **83-32-9** | **Acenaphthene** | **130** | |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-15S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-6

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061804

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 24 | U |
| **100-02-7** | **4-Nitrophenol** | **2** | **J** |
| **132-64-9** | **Dibenzofuran** | **4** | **J** |
| **121-14-2** | **2,4-Dinitrotoluene** | **2** | **J** |
| 84-66-2 | Diethylphthalate | 10 | U |
| **86-73-7** | **Fluorene** | **50** | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 100-01-6 | 4-Nitroaniline | 24 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 24 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 24 | U |
| **85-01-8** | **Phenanthrene** | **76** | |
| **120-12-7** | **Anthracene** | **17** | |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-butylphthalate | 10 | U |
| **206-44-0** | **Fluoranthene** | **13** | |
| **129-00-0** | **Pyrene** | **16** | |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| **56-55-3** | **Benzo(a)anthracene** | **4** | **J** |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| **218-01-9** | **Chrysene** | **3** | **J** |
| **117-81-7** | **bis(2-Ethylhexyl)phthalate** | **1** | **J** |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| **205-99-2** | **Benzo(b)fluoranthene** | **2** | **J** |
| **207-08-9** | **Benzo(k)fluoranthene** | **2** | **J** |
| **50-32-8** | **Benzo(a)pyrene** | **3** | **J** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

MW-98-15S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-6

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061804

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 19

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 000100-41-4 | Ethylbenzene | 5.36 | 110 | J |
| 2. | | C3-Substituted Benzene | 7.05 | 20 | J |
| 3. | | C3-Substituted Benzene | 8.32 | 22 | J |
| 4. | | C3-Substituted Benzene | 9.00 | 120 | J |
| 5. | | C3-Substituted Benzene | 9.72 | 54 | J |
| 6. | | Unknown Aromatic | 10.13 | 400 | J |
| 7. | | C4-Substituted Benzene | 10.68 | 29 | J |
| 8. | | Unknown Substituted Aromatic | 13.02 | 5 | J |
| 9. | | C4-Substituted Benzene | 13.11 | 5 | J |
| 10. | | C4-Substituted Benzene | 13.17 | 4 | J |
| 11. | 000090-12-0 | Naphthalene, 1-methyl- | 16.41 | 240 | J |
| 12. | | Naphthalene, ethyl- | 17.57 | 34 | J |
| 13. | | Naphthalene, dimethyl- | 17.72 | 32 | J |
| 14. | | Naphthalene, dimethyl- | 17.90 | 43 | J |
| 15. | | Naphthalene, dimethyl- | 17.96 | 19 | J |
| 16. | | Naphthalene, dimethyl- | 18.15 | 25 | J |
| 17. | | Benzoic acid, dichloro- | 18.93 | 24 | J |
| 18. | | Unknown alkane | 20.16 | 15 | J |
| 19. | | Unknown alkane | 20.67 | 14 | J |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-15SDL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-6DL

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061903

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume:1000 (uL) Date Analyzed: 06/19/98

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 48 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 48 | U |
| 95-57-8 | 2-Chlorophenol | 48 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 48 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 48 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 48 | U |
| 95-48-7 | 2-Methylphenol | 48 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 48 | U |
| 106-44-5 | 4-Methylphenol | 48 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 48 | U |
| 67-72-1 | Hexachloroethane | 48 | U |
| 98-95-3 | Nitrobenzene | 48 | U |
| 78-59-1 | Isophorone | 48 | U |
| 88-75-5 | 2-Nitrophenol | 48 | U |
| 105-67-9 | 2,4-Dimethylphenol | 48 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 48 | U |
| 120-83-2 | 2,4-Dichlorophenol | 48 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 48 | U |
| **91-20-3** | **Naphthalene** | **420** | **D** |
| 106-47-8 | 4-Chloroaniline | 48 | U |
| 87-68-3 | Hexachlorobutadiene | 48 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 48 | U |
| **91-57-6** | **2-Methylnaphthalene** | **290** | **D** |
| 77-47-4 | Hexachlorocyclopentadiene | 48 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 48 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 120 | U |
| 91-58-7 | 2-Chloronaphthalene | 48 | U |
| 88-74-4 | 2-Nitroaniline | 120 | U |
| 131-11-3 | Dimethylphthalate | 48 | U |
| 208-96-8 | Acenaphthylene | 48 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 48 | U |
| 99-09-2 | 3-Nitroaniline | 120 | U |
| **83-32-9** | **Acenaphthene** | **140** | **D** |

FORM I SV-I

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-15SDL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-6DL

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061903

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/19/98

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 120 | U |
| 100-02-7 | 4-Nitrophenol | 120 | U |
| 132-64-9 | Dibenzofuran | 48 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 48 | U |
| 84-66-2 | Diethylphthalate | 48 | U |
| **86-73-7** | **Fluorene** | **46** | **JD** |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 48 | U |
| 100-01-6 | 4-Nitroaniline | 120 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 48 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 48 | U |
| 118-74-1 | Hexachlorobenzene | 48 | U |
| 87-86-5 | Pentachlorophenol | 120 | U |
| **85-01-8** | **Phenanthrene** | **68** | **D** |
| **120-12-7** | **Anthracene** | **16** | **JD** |
| 86-74-8 | Carbazole | 48 | U |
| 84-74-2 | Di-n-butylphthalate | 48 | U |
| **206-44-0** | **Fluoranthene** | **9** | **JD** |
| **129-00-0** | **Pyrene** | **15** | **JD** |
| 85-68-7 | Butylbenzylphthalate | 48 | U |
| 56-55-3 | Benzo(a)anthracene | 48 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 48 | U |
| 218-01-9 | Chrysene | 48 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 48 | U |
| 117-84-0 | Di-n-octylphthalate | 48 | U |
| 205-99-2 | Benzo(b)fluoranthene | 48 | U |
| 207-08-9 | Benzo(k)fluoranthene | 48 | U |
| 50-32-8 | Benzo(a)pyrene | 48 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 48 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 48 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 48 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. MW-98-16D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: • Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-5

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061807

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume:1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 24 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 24 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 24 | U |
| 83-32-9 | Acenaphthene | 10 | U |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO. MW-98-16D

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-5

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061807

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 24 | U |
| 100-02-7 | 4-Nitrophenol | 24 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 100-01-6 | 4-Nitroaniline | 24 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 24 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 24 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| **117-81-7** | **bis(2-Ethylhexyl)phthalate** | **2** | **J** |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

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# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
## TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.: MW-98-16D

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) WATER  Lab Sample ID: L43536-5

Sample wt/vol: 1050 (g/mL) mL  Lab File ID: EB061807

Level: (low/med) LOW  Date Received: 06/05/98

% Moisture:  decanted: (Y/N) N  Date Extracted:06/10/98

Concentrated Extract Volume: 1000 (uL)  Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown hydrocarbon | 6.86 | 6 | JB |
| 2. | 004291-79-6 | Cyclohexane, 1-methyl-2-prop | 7.70 | 4 | JB |
| 3. | | | | | |
| 4. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-16S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-2

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061806

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| 91-20-3 | Naphthalene | 10 | U |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| 91-57-6 | 2-Methylnaphthalene | 10 | U |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 24 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 24 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 24 | U |
| 83-32-9 | Acenaphthene | 10 | U |

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-16S

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-2

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061806

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 24 | U |
| 100-02-7 | 4-Nitrophenol | 24 | U |
| 132-64-9 | Dibenzofuran | 10 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| 86-73-7 | Fluorene | 10 | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 100-01-6 | 4-Nitroaniline | 24 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 24 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 24 | U |
| 85-01-8 | Phenanthrene | 10 | U |
| 120-12-7 | Anthracene | 10 | U |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-butylphthalate | 10 | U |
| 206-44-0 | Fluoranthene | 10 | U |
| 129-00-0 | Pyrene | 10 | U |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| 56-55-3 | Benzo(a)anthracene | 10 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| 218-01-9 | Chrysene | 10 | U |
| **117-81-7** | **bis(2-Ethylhexyl)phthalate** | **9** | **J** |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| 205-99-2 | Benzo(b)fluoranthene | 10 | U |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| 50-32-8 | Benzo(a)pyrene | 10 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

1F

SAMPLE NO.

MW-98-16S

# SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
# TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: GALSON LABORATORIES  Contract: Blasland, B

Lab Code:  Case No.: 1  SAS No.:  SDG No.: L43536

Matrix: (soil/water) WATER  Lab Sample ID: L43536-2

Sample wt/vol:  1050 (g/mL) mL  Lab File ID: EB061806

Level: (low/med) LOW  Date Received: 06/05/98

% Moisture:  decanted: (Y/N) N  Date Extracted:06/10/98

Concentrated Extract Volume: 1000 (uL)  Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL)  Dilution Factor: 1.0

GPC Cleanup: (Y/N) N  pH: 7.0

Number TICS found: 2

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | | Unknown hydrocarbon | 6.86 | 9 | JB |
| 2. | 004291-79-6 | Cyclohexane, 1-methyl-2-prop | 7.70 | 8 | JB |
| 3. | | | | | |
| 4. | | | | | |
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| 30. | | | | | |

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-25

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-1

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061805

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume:1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 10 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 10 | U |
| 95-57-8 | 2-Chlorophenol | 10 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 10 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 10 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 10 | U |
| 95-48-7 | 2-Methylphenol | 10 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 10 | U |
| 106-44-5 | 4-Methylphenol | 10 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 10 | U |
| 67-72-1 | Hexachloroethane | 10 | U |
| 98-95-3 | Nitrobenzene | 10 | U |
| 78-59-1 | Isophorone | 10 | U |
| 88-75-5 | 2-Nitrophenol | 10 | U |
| 105-67-9 | 2,4-Dimethylphenol | 10 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 10 | U |
| 120-83-2 | 2,4-Dichlorophenol | 10 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10 | U |
| **91-20-3** | **Naphthalene** | **490** | **E** |
| 106-47-8 | 4-Chloroaniline | 10 | U |
| 87-68-3 | Hexachlorobutadiene | 10 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 10 | U |
| **91-57-6** | **2-Methylnaphthalene** | **300** | **E** |
| 77-47-4 | Hexachlorocyclopentadiene | 10 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 10 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 24 | U |
| 91-58-7 | 2-Chloronaphthalene | 10 | U |
| 88-74-4 | 2-Nitroaniline | 24 | U |
| 131-11-3 | Dimethylphthalate | 10 | U |
| 208-96-8 | Acenaphthylene | 10 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 10 | U |
| 99-09-2 | 3-Nitroaniline | 24 | U |
| **83-32-9** | **Acenaphthene** | **120** | |

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-25

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-1

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061805

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume:1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 24 | U |
| 100-02-7 | 4-Nitrophenol | 24 | U |
| **132-64-9** | **Dibenzofuran** | **4** | **J** |
| 121-14-2 | 2,4-Dinitrotoluene | 10 | U |
| 84-66-2 | Diethylphthalate | 10 | U |
| **86-73-7** | **Fluorene** | **44** | |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 10 | U |
| 100-01-6 | 4-Nitroaniline | 24 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 24 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 10 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 10 | U |
| 118-74-1 | Hexachlorobenzene | 10 | U |
| 87-86-5 | Pentachlorophenol | 24 | U |
| **85-01-8** | **Phenanthrene** | **64** | |
| **120-12-7** | **Anthracene** | **13** | |
| 86-74-8 | Carbazole | 10 | U |
| 84-74-2 | Di-n-butylphthalate | 10 | U |
| **206-44-0** | **Fluoranthene** | **9** | **J** |
| **129-00-0** | **Pyrene** | **11** | |
| 85-68-7 | Butylbenzylphthalate | 10 | U |
| **56-55-3** | **Benzo(a)anthracene** | **2** | **J** |
| 91-94-1 | 3,3'-Dichlorobenzidine | 10 | U |
| **218-01-9** | **Chrysene** | **2** | **J** |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 10 | U |
| 117-84-0 | Di-n-octylphthalate | 10 | U |
| **205-99-2** | **Benzo(b)fluoranthene** | **1** | **J** |
| 207-08-9 | Benzo(k)fluoranthene | 10 | U |
| **50-32-8** | **Benzo(a)pyrene** | **1** | **J** |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 10 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 10 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 10 | U |

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SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

MW-98-25

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-1

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061805

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted:06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/18/98

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

Number TICS found: 17

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| | CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|---|---|---|---|---|---|
| 1. | 000100-41-4 | Ethylbenzene | 5.36 | 110 | J |
| 2. | | C3-Substituted Benzene | 7.06 | 21 | J |
| 3. | | C3-Substituted Benzene | 8.32 | 22 | J |
| 4. | | C3-Substituted Benzene | 9.00 | 120 | J |
| 5. | | C3-Substituted Benzene | 9.72 | 53 | J |
| 6. | | Unknown Aromatic | 10.12 | 400 | J |
| 7. | | C4-Substituted Benzene | 10.67 | 31 | J |
| 8. | | Unknown Substituted Aromatic | 13.03 | 4 | J |
| 9. | | Unknown Substituted Aromatic | 13.12 | 5 | J |
| 10. | 000090-12-0 | Naphthalene, 1-methyl- | 16.41 | 230 | J |
| 11. | | Naphthalene, ethyl- | 17.57 | 30 | J |
| 12. | | Naphthalene, dimethyl- | 17.71 | 28 | J |
| 13. | | Naphthalene, dimethyl- | 17.90 | 40 | J |
| 14. | | Naphthalene, dimethyl- | 17.95 | 16 | J |
| 15. | | Naphthalene, dimethyl- | 18.15 | 20 | J |
| 16. | | Benzoic acid, dichloro- | 18.92 | 20 | J |
| 17. | | Naphthalene, trimethyl- | 19.34 | 14 | J |
| 18. | | | | | |
| 19. | | | | | |
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-25DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-1DL

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061904

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/19/98

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 108-95-2 | Phenol | 48 | U |
| 111-44-4 | bis(2-Chloroethyl)ether | 48 | U |
| 95-57-8 | 2-Chlorophenol | 48 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 48 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 48 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 48 | U |
| 95-48-7 | 2-Methylphenol | 48 | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 48 | U |
| 106-44-5 | 4-Methylphenol | 48 | U |
| 621-64-7 | N-Nitroso-di-n-propylamine | 48 | U |
| 67-72-1 | Hexachloroethane | 48 | U |
| 98-95-3 | Nitrobenzene | 48 | U |
| 78-59-1 | Isophorone | 48 | U |
| 88-75-5 | 2-Nitrophenol | 48 | U |
| 105-67-9 | 2,4-Dimethylphenol | 48 | U |
| 111-91-1 | bis(2-Chloroethoxy)methane | 48 | U |
| 120-83-2 | 2,4-Dichlorophenol | 48 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 48 | U |
| **91-20-3** | **Naphthalene** | **450** | **D** |
| 106-47-8 | 4-Chloroaniline | 48 | U |
| 87-68-3 | Hexachlorobutadiene | 48 | U |
| 59-50-7 | 4-Chloro-3-methylphenol | 48 | U |
| **91-57-6** | **2-Methylnaphthalene** | **300** | **D** |
| 77-47-4 | Hexachlorocyclopentadiene | 48 | U |
| 88-06-2 | 2,4,6-Trichlorophenol | 48 | U |
| 95-95-4 | 2,4,5-Trichlorophenol | 120 | U |
| 91-58-7 | 2-Chloronaphthalene | 48 | U |
| 88-74-4 | 2-Nitroaniline | 120 | U |
| 131-11-3 | Dimethylphthalate | 48 | U |
| 208-96-8 | Acenaphthylene | 48 | U |
| 606-20-2 | 2,6-Dinitrotoluene | 48 | U |
| 99-09-2 | 3-Nitroaniline | 120 | U |
| **83-32-9** | **Acenaphthene** | **130** | **D** |

- 2s

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

MW-98-25DL

Lab Name: GALSON LABORATORIES Contract: Blasland, B

Lab Code: Case No.: 1 SAS No.: SDG No.: L43536

Matrix: (soil/water) WATER Lab Sample ID: L43536-1DL

Sample wt/vol: 1050 (g/mL) mL Lab File ID: EB061904

Level: (low/med) LOW Date Received: 06/05/98

% Moisture: decanted: (Y/N) N Date Extracted: 06/10/98

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 06/19/98

Injection Volume: 1.0 (uL) Dilution Factor: 5.0

GPC Cleanup: (Y/N) N pH: 7.0

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|---|---|---|---|
| 51-28-5 | 2,4-Dinitrophenol | 120 | U |
| 100-02-7 | 4-Nitrophenol | 120 | U |
| 132-64-9 | Dibenzofuran | 48 | U |
| 121-14-2 | 2,4-Dinitrotoluene | 48 | U |
| 84-66-2 | Diethylphthalate | 48 | U |
| **86-73-7** | **Fluorene** | **46** | **JD** |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 48 | U |
| 100-01-6 | 4-Nitroaniline | 120 | U |
| 534-52-1 | 4,6-Dinitro-2-methylphenol | 120 | U |
| 86-30-6 | N-Nitrosodiphenylamine | 48 | U |
| 101-55-3 | 4-Bromophenyl-phenylether | 48 | U |
| 118-74-1 | Hexachlorobenzene | 48 | U |
| 87-86-5 | Pentachlorophenol | 120 | U |
| **85-01-8** | **Phenanthrene** | **61** | **D** |
| **120-12-7** | **Anthracene** | **13** | **JD** |
| 86-74-8 | Carbazole | 48 | U |
| 84-74-2 | Di-n-butylphthalate | 48 | U |
| **206-44-0** | **Fluoranthene** | **7** | **JD** |
| **129-00-0** | **Pyrene** | **10** | **JD** |
| 85-68-7 | Butylbenzylphthalate | 48 | U |
| 56-55-3 | Benzo(a)anthracene | 48 | U |
| 91-94-1 | 3,3'-Dichlorobenzidine | 48 | U |
| 218-01-9 | Chrysene | 48 | U |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | 48 | U |
| 117-84-0 | Di-n-octylphthalate | 48 | U |
| 205-99-2 | Benzo(b)fluoranthene | 48 | U |
| 207-08-9 | Benzo(k)fluoranthene | 48 | U |
| 50-32-8 | Benzo(a)pyrene | 48 | U |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | 48 | U |
| 53-70-3 | Dibenzo(a,h)anthracene | 48 | U |
| 191-24-2 | Benzo(g,h,i)perylene | 48 | U |

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-15S dissolved

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): WATER Lab Sample ID: DL43536-6

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | | P |
| 7440-36-0 | Antimony | 7.0 | U | N | P |
| 7440-38-2 | Arsenic | 25.6 | | | P |
| 7440-39-3 | Barium | 212 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 80600 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.0 | U | | P |
| 7439-89-6 | Iron | 7060 | | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 8740 | | | P |
| 7439-96-5 | Manganese | 1850 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 5610 | | | P |
| 7782-49-2 | Selenium | 13.6 | | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 110000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | | | | NR |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: Clarity After: Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-15S
total

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): Water Lab Sample ID: L43536-6

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1530 | | | P |
| 7440-36-0 | Antimony | 7.0 | U | | P |
| 7440-38-2 | Arsenic | 20.4 | | | P |
| 7440-39-3 | Barium | 205 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 75100 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 21.7 | B | | P |
| 7439-89-6 | Iron | 8700 | | | P |
| 7439-92-1 | Lead | 5.8 | | | P |
| 7439-95-4 | Magnesium | 8680 | | | P |
| 7439-96-5 | Manganese | 1720 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 4.3 | B | | P |
| 7440-09-7 | Potassium | 5240 | | | P |
| 7782-49-2 | Selenium | 3.0 | U | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 109000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.4 | B | | P |
| 7440-66-6 | Zinc | 17.1 | B | | P |
| 57-12-5 | Cyanide | 17.9 | | N | C |

olor Before: COLORLESS Clarity Before: CLOUDY Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-16D dissolved

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): WATER Lab Sample ID: DL43536-5

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | | P |
| 7440-36-0 | Antimony | 7.0 | U | N | P |
| 7440-38-2 | Arsenic | 4.2 | B | | P |
| 7440-39-3 | Barium | 102 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 135000 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 5.9 | B | | P |
| 7439-89-6 | Iron | 50.0 | U | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 24300 | | | P |
| 7439-96-5 | Manganese | 124 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.2 | B | | P |
| 7440-09-7 | Potassium | 2790 | B | | P |
| 7782-49-2 | Selenium | 11.9 | | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 118000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | | | | NR |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: Clarity After: Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-16D total

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): Water Lab Sample ID: L43536-5

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 265 | | | P |
| 7440-36-0 | Antimony | 7.0 | U | | P |
| 7440-38-2 | Arsenic | 3.0 | U | | P |
| 7440-39-3 | Barium | 103 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 132000 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.0 | U | | P |
| 7439-89-6 | Iron | 354 | | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 24000 | | | P |
| 7439-96-5 | Manganese | 105 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 2700 | B | | P |
| 7782-49-2 | Selenium | 3.0 | U | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 112000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | N | C |

olor Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

NA WAS ANALYZED AT A 10X DILUTION.

FORM I - IN

10/95

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-16S dissolved

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): WATER Lab Sample ID: DL43536-2

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | | P |
| 7440-36-0 | Antimony | 7.0 | U | N | P |
| 7440-38-2 | Arsenic | 3.0 | U | | P |
| 7440-39-3 | Barium | 63.1 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 111000 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.0 | U | | P |
| 7439-89-6 | Iron | 50.0 | U | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 18300 | | | P |
| 7439-96-5 | Manganese | 128 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 5000 | B | | P |
| 7782-49-2 | Selenium | 14.7 | | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 79300 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | | | | NR |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: Clarity After: Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-16S Total

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): Water Lab Sample ID: L43536-2

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | | P |
| 7440-36-0 | Antimony | 7.0 | U | | P |
| 7440-38-2 | Arsenic | 3.0 | U | | P |
| 7440-39-3 | Barium | 62.1 | B | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 108000 | | | P |
| 7440-47-3 | Chromium | 2.3 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.0 | U | | P |
| 7439-89-6 | Iron | 50.0 | U | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 17900 | | | P |
| 7439-96-5 | Manganese | 132 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 4690 | B | | P |
| 7782-49-2 | Selenium | 3.0 | U | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 78200 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | 10.0 | U | N | C |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-25 Dissolved

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): WATER Lab Sample ID: DL43536-1

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 40.0 | U | | P |
| 7440-36-0 | Antimony | 7.0 | U | N | P |
| 7440-38-2 | Arsenic | 26.6 | | | P |
| 7440-39-3 | Barium | 222 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 83500 | | | P |
| 7440-47-3 | Chromium | 2.0 | U | | P |
| 7440-48-4 | Cobalt | 2.0 | U | | P |
| 7440-50-8 | Copper | 2.0 | U | | P |
| 7439-89-6 | Iron | 7780 | | | P |
| 7439-92-1 | Lead | 2.0 | U | | P |
| 7439-95-4 | Magnesium | 9030 | | | P |
| 7439-96-5 | Manganese | 1880 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 2.0 | U | | P |
| 7440-09-7 | Potassium | 5780 | | | P |
| 7782-49-2 | Selenium | 11.9 | | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 107000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.0 | U | | P |
| 7440-66-6 | Zinc | 3.0 | U | | P |
| 57-12-5 | Cyanide | | | | NR |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: Clarity After: Artifacts:

Comments:

NA WAS ANALYZED AT A 10X DILUTION.

NYSDEC ASP

1

INORGANIC ANALYSES DATA SHEET

NYSDEC SAMPLE NO.

MW-98-25 total

Lab Name: Galson Laboratories Contract: BBL

Lab Code: 11626 Case No.: SAS No.: SDG No.: L43536

Matrix (soil/water): Water Lab Sample ID: L43536-1

Level (low/med): LOW Date Received: 06/05/98

% Solids: 0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No. | Analyte | Concentration | C | Q | M |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 1400 | | | P |
| 7440-36-0 | Antimony | 7.0 | U | | P |
| 7440-38-2 | Arsenic | 23.0 | | | P |
| 7440-39-3 | Barium | 214 | | | P |
| 7440-41-7 | Beryllium | 1.0 | U | | P |
| 7440-43-9 | Cadmium | 1.0 | U | | P |
| 7440-70-2 | Calcium | 77700 | | | P |
| 7440-47-3 | Chromium | 2.2 | B | | P |
| 7440-48-4 | Cobalt | 2.0 | B | | P |
| 7440-50-8 | Copper | 23.6 | B | | P |
| 7439-89-6 | Iron | 9000 | | | P |
| 7439-92-1 | Lead | 3.2 | | | P |
| 7439-95-4 | Magnesium | 8890 | | | P |
| 7439-96-5 | Manganese | 1790 | | | P |
| 7439-97-6 | Mercury | 0.10 | U | | AV |
| 7440-02-0 | Nickel | 4.4 | B | | P |
| 7440-09-7 | Potassium | 5320 | | | P |
| 7782-49-2 | Selenium | 3.0 | U | N | P |
| 7440-22-4 | Silver | 3.0 | U | | P |
| 7440-23-5 | Sodium | 108000 | | | P |
| 7440-28-0 | Thallium | 6.0 | U | | P |
| 7440-62-2 | Vanadium | 2.2 | B | | P |
| 7440-66-6 | Zinc | 20.4 | | | P |
| 57-12-5 | Cyanide | 20.5 | | N | C |

olor Before: COLORLESS Clarity Before: CLOUDY Texture:

olor After: COLORLESS Clarity After: CLEAR Artifacts:

omments:

NA WAS ANALYZED AT A 10X DILUTION.

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# Attachment 3 -

# Chain-of-Custody Forms

GALSON LABORATORIES
6601 Kirkville Road East
E. Syracuse, NY 13057
315-432-0506
800-950-0506

Party Name: BLASLAND, BOUCK, AND LEE

Project Name / Number: NYSEG COOK STREET 130360007

Turn-Around Time
☒ - Standard Service
☐ - * Rush Service
Date requested by: _____
Ph # ( ) - -
Fax # ( ) - -

Page ____ of ____

Send Report to: KIETH WHITE C/O BBL
6723 TOWPATH RD
PO BOX 66
SYRACUSE, NY 13214

Send Invoice to: ACCOUNTS PAYABLE BBL

P.O. # _____

# Chain of Custody Record

Laboratory ID Number

| SAMPLE ID | Date | Time | TYPE Comp. | TYPE Grab | Aqueous | Soil | Other | CN Totals | TVOCs | | | | PARAMETERS FOR ANALYSIS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW98-25 | 6/5/98 | 1630 | | X | X | | | 1 | 1 | 1 | 1 | 2 | |
| MW98-16S MSD | 6/5/98 | 1430 | | X | X | | | 1 | 1 | 1 | 1 | | |
| MW98-16S MS | 6/5/98 | 1430 | | X | X | | | 1 | 1 | 1 | 1 | 2 | |
| MW98-16D | 6/5/98 | 1105 | | X | X | | | 1 | 1 | 1 | 1 | 2 | |
| MW98-16S | 6/5/98 | 1430 | | X | X | | | 1 | 1 | 1 | 1 | 2 | |
| MW98-15S | 6/4/98 | 1510 | | X | X | | | 1 | 1 | 1 | 1 | 2 | |
| TRIP BLANK | | | | | | | | | | | | | |

REMARKS:

Total Containers = 24

SAMPLER'S NAME: Michael K Card SIGNATURE: [signature]

| SAMPLES RELINQUISHED BY: | | SAMPLES RECEIVED BY: | |
|---|---|---|---|
| NAME: [signature] SIGNATURE: | DATE: 6/5/98 TIME: 1800 | NAME: [signature] SIGNATURE: | DATE: 6-5-98 TIME: |
| NAME: SIGNATURE: | DATE: TIME: | Received For Laboratory By: (Signature) | DATE: TIME: |
| NAME: SIGNATURE: | DATE: TIME: | Received For Laboratory By: (Signature) | DATE: TIME: |

VOC Pres U P AU NA

Custody Seal Intact? ☐ Yes ☐ No ☐ N.A.
Shipment Complete? ☐ Yes ☐ No

Temp ____ °C TS TB TM

Airbill #