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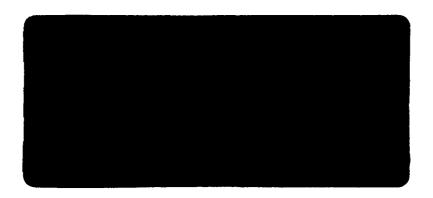
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FIELD INVESTIGATION REPORT

STRIPPIT, INC. AKRON, NEW YORK

DEC Site No. 915053

Prepared by:

Day Engineering, P.C.

2144 Brighton Henrietta Town Line Road

Rochester, New York 14623

Date:

July, 1993

VOLUME 1

TABLE OF CONTENTS

1.0		CTION	
	1.1 Pur	pose	1
	1.2 Si te B	ackground	1
2.0	STUDY A	REA INVESTIGATION	3
	2.1 A ei		3
	2.2 Tes	TO 1	4
	2.3 M o		5
	2.4 S ub	surface Soil Sampling	7
	2.5 Mo	nitoring Well Sampling	7
	2.6 A n:	alytical Program	8
	2 .6.	1. Soils	8
	2.6.	2 Ground Water	8
	2. 6.	3 Data Validation	9
	2.7 S ur	veying	9
3.0	STUDY A	REA PHYSICAL CHARACTERISTICS	10
			10
	3.1.		10
	3. 1.		10^{-10}
	3 .1.		11
	3.1.	\cdot = \cdot	11
	3.2 H yo		12
	3 .2.		12
	3.2.		12
4.0	SITE CHEM	ISTRY	14
	4.1 Ana		14 14
	4.2 D at		14
	4.3 Dis		14
	4.3.	4 6 11	14
	4. 3.	.	15
5.0	SUMMAR	Y	17
<i>(</i>			
6.0	CONCLU	SIONS AND RECOMMENDATIONS 1	19

1.0 INTRODUCTION

This report describes a limited field investigation conducted by Day Engineering, P.C. (Day Engineering) on the Strippit, Inc.(Strippit) property located at 12975 Clarence Center Road, Akron, New York (Figure 1, Site Location Map). The work plan for this investigation was prepared by Day Engineering and entitled "Field Investigation Plan, Strippit, Inc., Akron, New York, DEC Site No. 915053" dated January 1992, revised May 1992. The aforementioned work plan was approved by the New York State Department of Environmental Conservation (NYSDEC) and attached to "Order on Consent, Index #B9-398-92-03" as an appendix.

1.1 Purpose

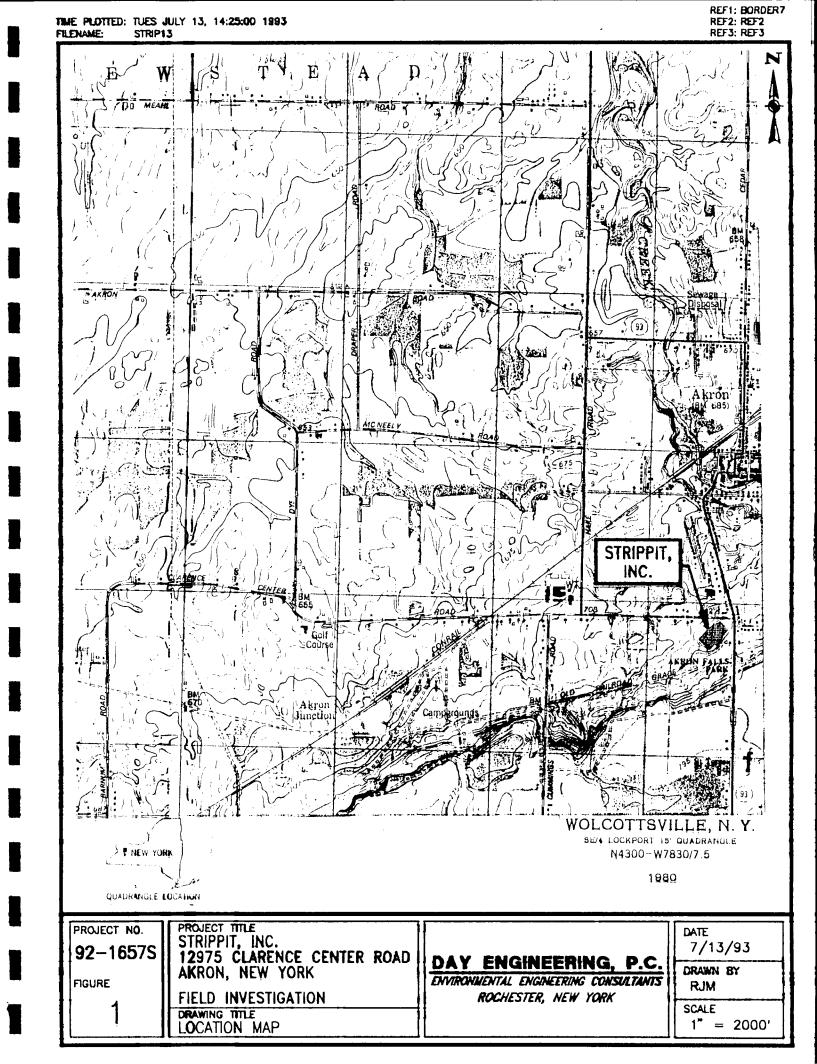
The purpose of this investigation was to verify the nature and extent of expected waste deposition within a limited area on the Strippit property that was reportly used as a disposal area. The investigation was designed to determine approximate boundaries of the area used for disposal, confirm information obtained through other sources regarding the nature of the materials disposed, and provide sufficient information for the design of a closure program for the disposal area.

1.2 Site Background

The Strippit property includes a former disposal area reportly used from approximately 1940 to 1975 in the southwest corner of the property (Drawing SR 1.1, Appendix A). Prior to 1956, the site was owned and operated by Buffalo Arms Corporation. Subsequent to that date, it was owned and operated by Strippit and its corporate predecessors. The site was filled to its present level during a building expansion in 1979.

Phase I and Phase II Investigations were conducted by Engineering-Science, Inc.. A final Phase II report was issued in March, 1991. The Phase II Investigation report cited the presence of volatile and base/neutral-extractable semi-volatile organic compounds, and elevated levels of several metals in water and soil samples collected on the site. However, neither the Phase I nor the Phase II investigations identified documentation of on-site hazardous waste disposal.

This landfill area has been designated by NYSDEC as a Class 3 inactive hazardous waste site, Site Number 915053, in the Registry of Inactive Hazardous Waste Disposal Sites in New York State. A Class 3 classification is assigned to sites which do not present a significant threat to the public health or the environment and for which action may be deferred.



On August 8, 1991, NYSDEC personnel and Strippit personnel and representatives met to discuss what further work, if any, was appropriate for the site. During that discussion, it was generally agreed that closure of the landfill area would probably be appropriate, and that closure would probably involve capping and ground water monitoring. However, it was also agreed that prior to closure, a limited field investigation would be needed. The main concern raised by the NYSDEC was the possibility that intact drums of liquid wastes might be present in the landfill, and that these liquids could ultimately escape to the environment if not removed prior to closure.

Subsequent to the meeting, the aforementioned work plan was prepared. Concurrent with the work plan preparation, a search of existing company records was conducted in an attempt to locate documentation of past waste disposal practices relevant to the landfill area. In addition, interviews were conducted and documented with past and present facility personnel. A compilation of information obtained through the review of company records and personnel interviews was prepared by Mr. Robert Johnson, Manufacturing Engineering Manager, Strippit, Inc.. This document was submitted as an appendix to the work plan and is resulting the test pit locations proposed in the work plan.

2.0 STUDY AREA INVESTIGATION

The limited field investigation conducted in the landfill area consisted of test pit excavations, installation of a monitoring well hydraulically upgradient, sampling and analysis of the newly installed well and the four (4) existing wells, and sampling and analysis of subsurface soil. In addition and prior to the aforementioned field activities, an aerial photograph review was performed on available aerial photos.

2.1 Aerial Photo Review

Aerial photographs for the years 1927, 1938, 1942, 1951, 1960, 1966, 1972, 1978 and 1985 were reviewed.

Photographs for the years 1927, 1938 and 1942 show the property as being generally agricultural. Buildings were not observed on the property in these photographs. The 1951 photographs show the existence of the manufacturing building and various site construction activities. A railroad line is visible in the photographs exiting the southwest side of the building and leading to the southwest property corner. A roadway, presumably under construction, is shown on the northwest side of the property. An elevated section of the ground surface is shown to the southwest of the building and resembles portions of the current disposal area. The soils in the disposal area are light colored and may be the result of recent (ca. 1951) grading activities. The railroad line traverses the center of the disposal area. An area of dark colored soil is shown along the west property line. A residence and an orchard are visible to the east of the east property line, along Buell Road. Excavation or disposal activities are not shown on these photographs in the disposal area.

Photographs for the year 1960 show the existence of two additional buildings having been constructed on the southeast side of the previously noted on-site building, along with an associated roadway. The new roadway is shown leading to the disposal area and terminating in what appears to be a dark-colored soil area. A second access roadway is observed exiting the southwest side of the existing building and extending to the southwest property corner, to the west of the existing railroad line. An area of presumed waste disposal is visible in these photographs, located between the west property line and west of the second access road, at the southwest property corner.

The 1966 photographs show that one of the two newly constructed buildings visible in 1960 photographs has been replaced by a single, larger structure on the southeast side of the main building. Additional filling (disposal) has occurred along the railroad line first noted in the 1951 photographs. Disturbed soils are noted along the rail line extending from the southwest property corner to the northeast, toward the main building. Additional grading

activities are shown at the northwest portion of the property where the present parking lot is located. Also, a building addition has been constructed on the west side of the main building, which may account for the observed parking lot activities.

The 1972 photographs show the construction of a second building addition on the west side of the main building. The railroad line first noted in the 1951 photographs is no longer present in these photographs. A light-colored soil roadway is shown along the former railroad line. Vegetation (field grass and shrubs) are noted along the west property line and near the southwest property corner. The parking lot appears to have been expanded to the southwest in these photographs. Filling or disposal activities are not visible in these photographs.

The photographs for 1978 show grading operations along the north, west and south flanks of the disposal area. Two, circular surface depressions are shown along the access road to the disposal area. A dark-colored soil or standing water area is noted to the north of the depressions.

The 1985 photographs were taken with infrared filters and in color. These photographs were of relatively poor quality and showed little detail.

2.2 Test Pit Excavation

Test pits were excavated in the existing disposal area, located to the southwest of the main building. The purpose of the test pits was to confirm and supplement information obtained through company records searches, personnel interviews, an aerial photograph review (see Section 2.1), and previous geophysical surveys conducted in the disposal area. The test pit locations are shown in Drawing SR 1.1, Appendix A. A total of thirty-three (33) test pits were excavated in and surrounding the disposal area.

Test pits were excavated by means of a rubber-tired backhoe, JCB Model #1400B, provided and operated by the subsurface drilling contractor, Buffalo Drilling Company, Inc. (BDCI), of Clarence, New York.

Each test pit was located in the field by Day Engineering and subsequently surveyed (see Section 2.7). A geologist from Day Engineering was present during the excavation of the test pits for the purpose of visually examining each test pit for evidence of fill or waste disposal activities. A photoionization detector (PID) was utilized to scan the excavated and in-situ soils as an aid in determining the presence or absence of volatile organic compounds in the subsurface. Along with the PID scanning results, a description of the subsurface soil conditions, visual and olfactory observations and other pertinent field observations were

logged into a field book. Upon completion of the field activities, the information contained in the field book was transferred to test pit logs presented in Appendix C.

Wherever possible, the test pits were excavated to depths where natural soils were encountered. The depth of excavation therefore, varied from 3.3 feet in test pit TP-33 to 9.8 feet in test pits TP-16 and TP-17. Photographs were obtained from selected test pit excavations that show various natural as well as fill conditions. These photos are available at Day Engineering's Rochester, New York offices.

2.3 Monitoring Well Installation

One monitoring well was installed at a location mutually agreed upon by the NYSDEC and Strippit at a location upgradient of the disposal area. The purpose of the well was to provide background information on the groundwater quality. Upon installation of the proposed upgradient well, the four existing wells and the newly installed well were developed prior to commencement of sampling activities. The following discussion presents the well installation procedure.

Test boring GW-5 was advanced through the unconsolidated soils at the location shown in Drawing SR 1.1, Appendix A. The boring was advanced by means of utilizing 4.25-inch I.D. (inside diameter) hollow-stem augers driven by a truck-mounted CME Model #55 drill rig. Prior to commencement of drilling operations, the drilling equipment, augers, rods, tools, and monitoring well construction material were steam cleaned upon arrival. The same cleaning procedure was also followed prior to exiting the site with the exception of the monitoring well construction material.

Subsurface soil samples were collected during the advancement of the test boring. The soil samples were collected by means of advancing a 2-inch outside diameter split-spoon sampler in accordance with the standard penetration test procedure (ASTM D-1586). Standard split-spoon sampling (i.e. at five-foot intervals) was conducted through the unsaturated unconsolidated soils. Continuous split-spoon sampling procedures were conducted through the saturated unconsolidated soils to boring completion. The continuous sampling was performed in the saturated unconsolidated soils through the depth interval in which the monitoring well screen was installed.

A geologist from Day Engineering recorded the information obtained from drilling of the soil boring. The information was transcribed to soil boring logs and included the following:

Date, test boring identification and project identification.

- Names of the drilling contractor, driller, drilling assistant and on-site geologist.
- Drill rig and equipment model, size and description.
- Depths recorded in feet and fractions thereof (tenths of a foot) referenced to the existing ground surface.
- Standard penetration test blow counts (ASTM D-1586)
- The sample interval and the length of the recovered sample.
- The depth of the first encountered water table referenced to the ground surface.
- Drilling and borehole characteristics.
- Sequential stratigraphic boundaries.
- Initial PID screening results of the split-spoon samples.

Upon completion of the drilling procedures and prior to withdrawal of the hollow stem augers, a monitoring well was installed in the test boring hole through the center of the hollow stem augers. Installation of the monitoring well consisted of placing a precleaned 10 foot length of 2-inch I.D., threaded, flush-jointed, No. 10 slot, Schedule 40 polyvinyl chloride (PVC) screen with attached PVC riser at the boring completion depth. The well screen was placed at a depth of 54.8 feet to 64.8 feet below the ground surface to intersect the uppermost saturated zone within the unconsolidated soils. A graded sand pack was placed in the annulus surrounding the well screen and extending approximately 1 foot below and 1.7 feet above the screened interval. A 1.5-foot thick bentonite seal was placed above the sand pack and the remaining annulus was filled with cement/bentonite grout tremied into the annulus using a grout pump.

A minimum of 48 hours was allowed to elapse prior to development of the new well, GW-5, to allow for curing of the cement/bentonite grout seal. Prior to development of the existing and the new wells, the static water level was recorded at each well using an electric water level indicator. Well development consisted of purging each of the wells by means of PVC bailers. The progress of the development was monitored by means of recording the temperature, pH, specific conductance and turbidity of the purged waters. The evacuation volume was measured along with the color, clarity of the waters and the description of the removed sediments. The purged waters were placed into 55-gallon drums pending future

disposal. The five wells were developed prior to commencement of groundwater sampling procedures.

2.4 Subsurface Soil Sampling

PID scanning was performed during the test pit excavations to determine the potential presence of volatile organics. Based on PID scanning results, one soil sample was composited from discrete samples obtained from Test Pits TP-21 and TP-25 for semi-volatile organic, cyanide and metal analysis. The discrete sample collected for volatile organic analysis was obtained from Test Pit TP-21. PID readings obtained from these two test pits indicated that volatile organics were potentially present in the subsurface soils underlying the fill material at the depth below ground surface of approximately 3 to 4 feet. PID readings ranged from 5 to 10 parts per million (ppm) in each test pit and were recorded in the natural soils above where perched water was seeping into the test pit excavations.

The soil composite was collected and prepared using a precleaned stainless steel spoon and bowl and subsequently placed into the appropriate precleaned, laboratory container. The discrete sample was obtained using a precleaned stainless steel spoon and placed directly into an appropriate precleaned, laboratory container. The soil sample was preserved by means of cooling and transported under chain of custody to the contracted laboratory for analysis. See Section 2.6.1. for the list of parameters.

2.5 Monitoring Well Sampling

Following development of the newly installed monitoring well, GW-5, and the existing wells, approximately two weeks were allowed to elapse between the development and the sampling operations in order for the groundwater to return to ambient conditions. Static water levels were again recorded prior to commencement of the sampling operations. Each well was evacuated to dryness or until a minimum of three well volumes had been removed. Groundwater samples were collected by using a separate precleaned, teflon bailer at each well. In addition to the ground water samples obtained from each well, matrix spike and matrix spike duplicate samples were obtained from monitoring well GW-3.

The groundwater samples obtained for metal analysis were preserved via acid fixation in the field. Also, the samples obtained for soluble metal analysis were filtered prior to preservation. Following sample collection and appropriate filtering and preservation, the samples were properly labeled, placed on ice and the chain of custody initiated. The samples were then transported by Day Engineering personnel to the contracted laboratory. Section 2.6.2 discusses the analytical program for the ground water samples.

2.6 Analytical Program

2.6.1. Soi**ls**

Analysis of a discrete and composite soil sample obtained during the test pit excavations was performed by General Testing Corporation, Rochester, New York for the following parameters:

- Target Compound List (TCL) volatile organics (U.S. EPA Method #8240)
- TCL semi-volatile organics (U.S. EPA Method #8270)
- Selected Total Metals (various U.S. EPA Methods)
 Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver
- Cyanide

Analysis for the above selected total metals were at the request of the NYSDEC.

The analyses were performed via the methodology set forth in USEPA SW-846, 3rd Edition. The analytical package deliverable was submitted in accordance with NYSDEC Analytical Services Protocol Volume 1, Exhibit B, Category B.

2.6.2 Ground Water

Analysis of the ground water samples was performed by General Testing Corporation, Rochester, New York for the following parameters:

- TCL volatile organics (U.S. EPA Method #8240)
- TCL semi-volatile organics (U.S. EPA Method #8270)
- Selected Total and Soluble Metals (various U.S. EPA Methods)
 Aluminum, Barium, Cobalt, Iron, Magnesium, Manganese, Vanadium, and
 Zinc
- Cyanide

The analyses were performed via the methodology set forth in USEPA SW-846, 3rd Edition. The analytical package deliverable was submitted in accordance with NYSDEC Analytical Services Protocol (ASP) Volume 1, Exhibit B, Category B.

2.6.3 Data Validation

Following completion of the analyses, a quality assurance review of the data generated from both soil and ground water samples was performed by Environmental Standards, Inc., Valley Forge, Pennsylvania. The review was performed with guidance from the following documents:

- "Functional Guidelines for Evaluating Organics Analyses" (U.S. EPA, 1988)
- "Functional Guidelines for Evaluating Inorganics Analyses" (U.S. EPA, 1988)

The data was reviewed as to its usability and compliance specified in the analytical method. In addition, the deliverables specified under NYSDEC ASP, Category B were evaluated.

2.7 Surveying

A topographic survey of the landfill area and adjacent areas was performed by Deborah A. Naybor, PLS, P.C., Depew, New York following completion of the field activities. The resultant topographic map prepared and stamped by the surveyor is presented in Appendix D. Drawing SR 1.1, Appendix A was reproduced from the surveyor's topographic map. Subsequent drawings in Appendix A utilized the surveyor's map as a base map, excluding the geologic cross-section drawings.

In addition to establishing the topography at the site, the survey also included establishing the spatial position and vertical control/elevation above mean sea level of both the test pits and the monitoring wells. The elevation above mean sea level at each monitoring well was established using the top of PVC casing as the control point at each well.

3.0 STUDY AREA PHYSICAL CHARACTERISTICS

3.1 Gcology

3.1.1 Regional Setting

The Strippit site is located within the southern portion of the Erie-Ontario Lowlands physiographic province. Generally, the geology of the Erie-Ontario Lowlands province consists of relatively level glacial till and proglacial plains. The glacial tills consist of poorly sorted clays, silts, sands, gravels, and boulders that were deposited beneath the advancing glacial ice sheet. The proglacial plains generally consist of lacustrine silts and clays that were deposited in lakes created at the front of the ice sheets. These lacustrine deposits are not as compact as the glacial tills, but are laminated, calcareous in nature, and may exhibit instability in the sidewalls of stream beds.

Bedrock in the southern portion of the Erie-Ontario Lowlands province generally consists of shale, dolostone, and limestone rocks of Silurian to Devonian age (i.e., 360 to 435 million years old). The bedrock generally slopes to the south at approximately 35 feet per mile. The bedrock is also a known reservoir for natural gas deposits and several production wells have been drilled in the Erie-Ontario Lowlands province.

3.1.2 Site Setting

The Strippit site is located in the Southern Ontario Plains portion of the Erie-Ontario Lowlands physiographic province. Topographically, the site is relatively level with the exception of the elevated disposal area, located to the southwest of the plant building. The original site slopes gently to the north. The disposal area is elevated approximately 10 feet with respect to the surrounding topography and also slopes to the north. The disposal area is bounded by the asphalt drive and parking tot located to the north, the east property line, a former railroad right-of-way on the south and agricultural lands to the west.

The surface of the disposal area consists of topsoil, sands, gravels, crushed stone, concrete fragments, bricks, metal fragments, discarded metal equipment, and wood pieces.

3.1.3 Fill

Fill materials were encountered in the disposal area during the test pit excavations. These fills appear to be limited to the disposal area. In general, the fills consist of red-brown clayey silts, sands, gravels, cobbles, lenses of grinding fines, metal pieces, slag, wood debris, brick fragments, concrete fragments, deteriorated 55-gallon drum pieces, and electrical wiring. The fill consists mainly of construction and demolition debris.

Within the investigation area, the fill thickness ranged from none encountered to approximately eight feet. Maximum fill thickness of 8 feet were encountered along the central portion of the disposal area. Fill materials were not encountered west of the west property line on the off-site agricultural lands. Fill was observed to extend to the southern property line in the vicinity of the former railroad right-of-way. The approximate fill thicknesses as encountered during the test pit excavations is presented on Drawing SR 1.2, Appendix A.

Geologic sections, the locations of which are shown on Drawing SR 1.3, Appendix A and subsequently presented on Drawings SR 1.4 and 1.5, were prepared based solely on the information obtained from the test pit excavations and test borings associated with the on-site monitoring wells. As shown on the geologic sections, the filling operations generally appear to have been controlled by the original pre-fill topography. As shown on the geologic sections, in-situ soils have been encountered surrounding the disposal area.

3.1.4 Soils and Bedrock

The unconsolidated material encountered beneath the fill materials consists of topsoil and lacustrine silts, sands, and gravels (Drawing SR 1.5). These lacustrine deposits are tan-brown with varying quantities of gravel and clay. Clayey silts and a silt and sand layer were encountered beneath the lacustrine silts at a depth of 38.5 and 53.5 feet, respectively, in boring/monitoring well GW-5. Laminated silts and clays were encountered at 57 to 59 feet below ground surface in well GW-5, prior to encountering a gray silty sand at a depth of 59 and 66 feet.

Bedrock was not encountered during the drilling of boring/monitoring well GW-5 but is presumed to be the Akron Dolostone and the Bertie Formation dolostones and interbedded shales. The Onondaga Limestone lies unconformably over the Akron Dolostone and is located to the south of the site.

Natural gas reservoirs have been encountered in the bedrock units below the Bertie Formation and often extend to depths of 600 to 900 feet below the ground surface. A natural gas well is located in the landfill area (Drawing 1.1, Appendix A). Reportedly, the gas well was installed in 1978 and is 914 feet deep. The well is terminated in the Queenston Formation and tapping the overlying Medina Formation.

3.2 Hydrogeology

3.2.1 Regional Hydrogeology

The site is located within the drainage basin of Murder Creek, located to the north of the site. Regionally, groundwater flow is controlled by the fractured bedrock underlying the site and is generally to the south. However, on a more local scale groundwater in the overburden soils is controlled by Murder Creek and exhibits a northerly flow direction.

3.2.2 Site Hydrogeology

Perched water was encountered at the fill/natural soil interface in the majority of the test pit excavations. The perched water does not appear to be continuous across the site. When encountered, the perched water was observed within the upper portion of the silty sand soils noted beneath the fills at depths ranging from 3 to 9 feet below the ground surface. Perched water was noted at depths of 3 to 4 feet below the ground surface in the test pits along the western property line, at 5 to 6 feet below the ground surface along the south property line and at 8 to 9 feet in the central portion of the disposal area. The presence of perched water is seasonal and is the result of precipitation infiltrating the fill material and percolating down to the denser, less permeable in-situ soils.

Boring/monitoring well GW-5 encountered silty sands from a depth of 0 to 8.5 feet. From approximately 8 feet to 38 feet, a mixture of dense lacustrine silts and sands was present. A clayey silt layer was then encountered from 38.5 to 53.5 feet. No free standing water was encountered in these soils. However, a saturated gray silt and sand zone was encountered at 53.5 to 66 feet with an interbedded clay and silt layer being noted at 57 to 59 feet.

Based on static water level readings following redevelopment of the four existing wells and development of the recently installed well, GW-5, the uppermost water bearing zone beneath the site is under water table conditions. Based on the static

water level readings obtained from wells GW-1 through GW-5 on February 22, 1993, a potentiometric map was prepared (Drawing 1.6, Appendix A). As depicted on this drawing, the general groundwater flow direction within the spatial coverage of the on-site monitoring wells is to the north-northeast within the uppermost water bearing zone under lying the disposal area. Based on this general ground water flow direction, well GW-2 and GW-5 are considered to be upgradient wells while wells GW-1, GW-3, and GW-4 are considered to be downgradient wells around the landfill area.

4.0 SITE CHEMISTRY

4.1 Analytical Results

The contracted laboratory's (General Testing Corporation) Sample Data Summary Package as per NYSDEC ASPB reporting specifications for the soil composite is presented in Appendix E. The Sample Data Summary Package for the ground water samples is presented in Appendix F. The Sample Data Package for both the soil and ground water samples as per NYSDEC ASPB reporting specifications is presented in Appendix G.

For the purpose of subsequent discussions, Tables 1 and 2 have been prepared. Table 1 lists only the detectable compounds identified in the soil sample and their respective concentrations. Table 2 is a tabulation of the detectable compounds found in the ground water samples and their respective concentrations.

4.2 Data Validation

Environmental Standards, Inc.'s Quality Assurance Review report and subsequent correspondences and responses from General Testing Corporation are presented in Appendix H. With the receipt of the last response from General Testing on June 15, 1993, the data and deliverables were deemed usable and acceptable.

4.3 Discussion

4.3.1 Soils

During the test pit excavations, the fill material within the disposal area consisted primarily of construction and demolition (C&D) debris. The fill material did not exhibit any anomalous PID and/or visual or olfactory characteristics. However, insitu soils underlying the fill did exhibit detectable PID readings within a limited area in the southwest corner of the disposal area in the area of test pits TP-21, TP-25, TP-28, and TP-32 (Drawing SR 1.6, Appendix A). Although no anomalous visual characteristics were observed in this area, slightly elevated PID readings were recorded and a slight chemical-like odor was observed, specifically in TP-21 and TP-25.

Based on this observation and with the concurrence of the NYSDEC, a soil composite was obtained from TP-21 and TP-25. Analysis was performed on the sample for the compounds and metals discussed in Section 2.6.1.. Of the analytes and metals tested, only two volatile compounds and six metals were detectable (Table 1).

TABLE 1

DETECTABLE ANALYTICAL RESULTS SOIL SAMPLE

STRIPPIT, INC. AKRON, NEW YORK

COMPOUND	UNITS	CONCENTRATION		
acetone	μg/kg	15.0 J		
tetrachloroethene	μg/kg	360.0		
di-n-buty lp hthalate	μg/kg	130.0 JB		
arsenic	mg/kg	7.7		
barium	mg/kg	58.6		
cadium	mg/kg	0.60		
chromium	mg/kg	13.1 E		
lead	mg/kg	12.9		
silver	mg/kg	2.1		

NOTE:

- \boldsymbol{J} indicates an estimates value which is less than the sample quantitation limit but greater than zero.
- B compound detected in the associated blank as well as in the sample.
- E concentration estimated because of the presence of interference.
- N spiked samples recovery not within control limits.

TABLE

DETECTABLE ANALYTICAL RESULTS GROUND WATER SAMPLES

STRIPPIT, INC. AKRON, NEW YORK

PPB	
4	_

		MONITORING WELL SAMPLE NUMBER					
COMPOUND	UNITS	GW-1	GW-2	GW-3	GW-4	GW-5	- GWSA
acetone	με⁄Л	10 U	17	10 U	10 U	30	
phenol	με⁄Ι	10 U	12	10 U	10 U	10 U	
phenanthrene	μεੁ⁄Ι	10 U	10 U	10 U	10 U	1 J	
Total aluminum	μεί	247 /	389	1090	8260	1550	
Soluble aluminum	μῦΛ	48.9 U	327	48.9 U	48.9 U	51.6 B	
Total barium	μ፬/Ι	116 B	466	77.8 B	124 B	114 B	-/000
Soluble barium	μgΛ	102 B	409	1.1 U	36.8 B	107 B	
Total-iron	μ ջ /1	181: 300	89.6 B	1460	44-300	.h6.80	-300
Soluble iron	μ <u>\$</u> /1	5.3 B	21.8 B	5.3 Ų	5.3 U	26.5 B	
Total magnesium	μξ/Ι	9720 (2000)5	ช ^จ 129 U	•30,000	-66,7,00	3560 B	-3500
Soluble magnesium	μ <u>ε</u> Λ	8520	129 U	129 U	65,000	153 B	
Total manganese	μ <u>ς</u> /1	3.3 B	1.6 B	127	224	37.8	-300
Soluble manganese	μوٍ∕۱	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	
Total vanadium	μgΛ	13.6 U	13.6 U	13.6 U	15.9 B	13.6 U	
Soluble vanadium	με⁄Ι	13.6 U	13.6 U	13.6 U	13.6 U	15.6 B	
Total zine	μ8/Ι	5.1 B	10.2 B	12.0 B	31.6	32.2	300
Soluble zinc	μg/l	16.8 B	47.9	2.8 U	3.2 B	4.0 B	

NOTE:

U - compound analyzed but not detected

J - estimated concentration of organic compound which is less than the sample quantitation limit but greater than zero

B - concentration of inorganic compound that is less then the contract required detection limit, but greater than the instrument detection limit

A semi-volatile compound, di-n-butylpthalate, was detected in the soil composite, but the compound was also detected in the laboratory blank. Its presence in the laboratory blank suggest that it may not be present in the soil.

The two detectable volatile organics were acetone and tetrachlorethene. Acetone was detected at an estimated concentration below the method detection limit of 15 parts per billion (ppb). Tetrachlorethene was detected at a concentration of 360 ppb.

The six metals detected in the soil composite were arsenic, barium, cadmium, chromium, lead, and silver. The concentration of these detectable metals were 7.7 mg/kg, 58.6 mg/kg, 0.60 mg/kg, 13.1 mg/kg, 12.9mg/kg, and 2.1 mg/kg, respectively. The concentrations of these six metals are well within the published naturally-occurring ranges for New York State soils (USGS, Professional Paper 1270: New York State Soils. 1984).

4.3.2 Ground Water

The four existing monitoring wells and the newly installed monitoring well were sampled and analyzed for the compounds and metals presented in Section 2.6.2. Of the TCL volatile organic compounds tested, only acetone was detected. Acetone was detected in monitoring wells GW-2 and GW-5 at concentrations of 17 ppb and 30 ppb, respectively. Phenol and phenanthrene were the only two TCL semi-volatile organic compounds detected. Their respective concentrations were 12 ppb at monitoring well GW-2 and 1 ppb at GW-5. With the exception of phenol, the other two detectable organic compounds, do not exceed NYSDEC ambient ground water standards or guidance values. Although phenol was detected at a low concentration slightly above the method detection limit of 10 ppb, it does exceed the NYSDEC ground water standard of 1 ppb.

As discussed in Section 2.6.2, analysis was performed for both total and soluble metals. The inclusion of soluble metals in the ground water analytical program was to enable a better quantification as to the actual concentrations of metals in the ground water. Total metal concentrations reflect the concentrations of both the dissolved metals in ground water and metals attached to colloids and particulates greater than 0.45 microns. The metals tested that were detectable were aluminum, barium, iron, magnesium, manganese, vanadium, and zinc. In general, the soluble metal concentrations were less than the respective total metal concentrations.

For the aforementioned detectable metals, only barium, iron, magnesium, manganese, and zinc have NYS ambient water quality standards. The ground water standards for

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these metals are 1000 ppb, 300 ppb, 35,000 ppb, 300 ppb and 300 ppb, respectively. An additional standard exists for iron and manganese. If the two metals are present, their combined concentration cannot exceed 500 ppb.

Total iron concentrations exceeded the above standard for iron at monitoring wells GW-3, GW-4 and GW-5. However, the soluble iron at the same sampling points was detected at concentrations lower than the standard. In fact, at GW-3 and GW-4, soluble iron was not detected. Total magnesium concentrations exceeding the ground water standard were detected in monitoring wells GW-3 and GW-4. Only at GW-4 did the soluble concentration exceed the ground water standard for magnesium. The remaining detectable metal concentrations did not exceed existing ground water standards.

5.0 SUMMARY

The information generated during this investigation confirmed the presence of construction and demolition material intermixed with soil fill and minor amounts of metal fragments, cinders and slag in the former disposal area located in the southwest corner of the Strippit property. With the exception of a small area in the southwest corner of the former disposal area, no anomalous staining, odors and/or PID readings were observed or recorded. No intact drums were encountered during the excavation of 33 test pits. These observations suggest that the fill underlying this area of the site is for the most part inert construction and demolition debris.

In an approximate 50-foot by 50-foot area adjacent to the southern and western property lines, slightly elevated PID readings were observed during the excavation of four test pits within this area. The detected PID readings were encountered in the natural soils underlying the fill material. The thickness of this layer appears to be approximately two feet to three feet. Subsequent analysis of a representative subsurface soil sample detected tetrachlorethene at 360 ppb. Test pit excavations surrounding the area, did not encounter detectable PID readings nor odors. Observation of the test pits within the area did not identify a potential source (e.g. drums) within the overlying fill. No recordable PID readings were observed in the overlying fill material in this area. The presence of the tetrachlorethene attached to the natural soils underlying the fill in this area appears to be confined to the area and a residual from a past activity in this area. This compound was not detected in the underlying water bearing zone. At 360 ppb, the concentration of tetrachloroethene is less than the recommended soil cleanup objective of 1.4 ppm as set forth in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM), 92-4046.

Underlying the fill material, the unconsolidated materials consist of lacustrine silts and sands with varying amounts of gravel and clay. The uppermost water bearing zone was encountered at approximately 50 feet to 55 feet below the fill material. Hence, the overlying fill material is separated from the uppermost water bearing zone by approximately 50 feet of dense, unsaturated lacustrine deposits.

Within the uppermost water bearing zone, ground water flow is from the south to the northeast. Analysis of ground water samples obtained from the five on-site monitoring wells screened within this water bearing zone did not detect any volatile or semi-volatile organic constituents in the ground water downgradient of the fill area. Three constituents were detected, at low concentrations, in the ground water underlying the upgradient portion of the fill area.

The three detected constituents were acetone, phenol and phenanthrene. Acetone was detected in both upgradient wells GW-2 and GW-5 at concentrations of 17 ppb and 30 ppb. Phenanthrene was detected in only GW-5 at an estimated value below the detection limit of 1 ppb. The ground water guidance value for both of these compounds is 50 ppb. None of the aforementioned concentrations exceed this guidance value.

Phenol was detected in GW-2 at 12 ppb which is slightly above the method detection limit of 10 ppb. The ground water standard for phenol is 1 ppb. To date, previous investigative work at the site have not detected the constituent, phenol, in ground water, surface water, stream sediment nor soils. Additionally, although detected in an upgradient well, phenol was not detected in the downgradient wells. Due to the absence of phenol being previously detected at the site and its presence in only an upgradient well, its difficult to attribute the detection of phenol in the ground water to past site activities.

In addition to volatile and semi-volatile organic analysis on the ground water samples, eight total and soluble metals were analyzed. The resultant soluble metal concentrations, which tends to be more representative of the actual metal concentrations dissolved in ground water, identified only soluble magnesium exceeding a regulatory ground water standard in downgradient well GW-4. The magnesium standard is primarily set for aesthetic reasons (e.g. taste, odor, discoloration) and not to protect public health and the environment. Therefore, exceedance of the standard does not seem to pose a risk to public health and the environment.

6.0 CONCLUSIONS AND RECOMMENDATIONS

The test pit excavation activity conducted during this investigation did not encounter any intact drums nor evidence of hazardous waste disposal. The fill material observed during the test pit excavations can be characterized as mainly construction and demolition debris intermixed with soil fill and minor amounts of cinders, slag and metal fragments. The fill material and contamination encountered does not pose a significant threat to the public and the environment. Nevertheless, the landfill does contain regulated industrial waste. Therefore, it is recommended that the area be closed to properly manage it. The closure program for this area should be modeled after the 6 NYCRR Part 360 requirements for construction and demolition landfills less than two acres in size.

APPENDIX A
DRAWINGS

1.0 INTRODUCTION

1.1 Purpose

This document presents the proposed Interim Remedial Measure (IRM) Work Plan for a former disposal area on the Strippit, Inc.(Strippit) property located at 12975 Clarence Center Road, Akron, New York (Figure 1, Site Location Map). The preparation and submittal of this IRM Work Plan is in accordance with the New York State Department of Environmental Conservation (NYSDEC) "Order on Consent, Index #B9-398-92-03".

1.2 Site Background

The Strippit property includes a former disposal area reportedly used from approximately 1940 to 1975 in the southwest corner of the property (Drawing SR 1.1, Appendix A). Prior to 1956, the site was owned and operated by Buffalo Arms Corporation. Subsequent to that date, it was owned and operated by Strippit and its corporate predecessors. The site was filled to its present level during a building expansion in 1979.

Phase I and Phase II Investigations were conducted by Engineering-Science, Inc.. A final Phase II report was issued in March, 1991. The Phase II report cited the presence of volatile and base/neutral-extractable semi-volatile organic compounds, and elevated levels of several metals in water and soil samples collected on the site. However, neither the Phase I nor the Phase II investigations identified documentation of on-site hazardous waste disposal.

This landfill area has been designated by NYSDEC as a Class 3 inactive hazardous waste site, Site Number 915053, in the Registry of Inactive Hazardous Waste Disposal Sites in New York State. A Class 3 classification is assigned to sites which do not present a significant threat to the public health or the environment and for which action may be deferred.

On August 8, 1991, NYSDEC personnel and Strippit representatives met to discuss what further work, if any, was appropriate for the site. During that discussion, it was generally agreed that closure of the landfill area would probably be appropriate, and that closure would probably involve capping and ground water monitoring. However, it was also agreed that prior to closure, a limited field investigation would be conducted.

The limited field investigation was performed by Day Engineering, P.C. (Day Engineering). A report entitled "Field Investigation Report, Strippit, Inc., Akron, New York, DEC Site No. 915053" dated July 1993 was prepared and submitted to the NYSDEC.

The following sections summarize the site conditions based on the data/information generated to date.

1.3 Site Setting and Hydrogeology

The Strippit property is located in the Southern Ontario Plains portion of the Erie-Ontario Lowlands physiographic province. Topographically, the property is relatively level with the exception of the elevated disposal area, located to the southwest of the plant building. The disposal area is elevated approximately 10 feet with respect to the surrounding topography and also slopes to the north. The disposal area is bounded by the asphalt drive and parking lot located to the north, the east property line, a former railroad right-of-way on the south and, agricultural lands to the west.

The surface of the disposal area consists of topsoil, sands, gravels, crushed stone, concrete fragments, bricks, metal fragments, discarded metal equipment, and wood pieces.

In general, the fill material underlying the surface of the disposal area consists of red-brown clayey silts, sands, gravels, cobbles, lenses of grinding fines, metal pieces, slag, wood debris, brick fragments, concrete fragments, deteriorated 55-gallon drum pieces, and electrical wiring. The fill consists mainly of construction and demolition debris.

The filling operations generally appear to have been controlled by the original pre-fill topography. Fill materials were generally not encountered west of the west property line on the off-site agricultural lands with the exception of a limited area located in the central portion of the western boundary of the disposal area. In this area, the fill material was encountered approximately 20 feet to the west of the property line. Fill was observed to extend to the southern property line in the vicinity of the former railroad right-of-way. Maximum fill thickness was encountered within the central portion of the disposal area.

Underlying the fill material, the unconsolidated materials consist of lacustrine silts and sands with varying amounts of gravel and clay. The uppermost water bearing zone was encountered at approximately 50 feet to 55 feet below the fill material. The overlying fill material is separated from the uppermost water bearing zone by approximately 50 feet of dense, unsaturated lacustrine deposits. Ground water flow within the uppermost water bearing zone is from the south to the northeast.

Perched water was encountered at the fill/natural soil interface during the limited field investigation. The perched water did not appear to be continuous across the disposal area. When encountered, the perched water generally was observed within the upper portion of the silty sand soils underlying the fill material. An exception to this condition may occur in the area of TP-15 (see Drawing SR 1.1, Appendix A) where perched water, if present, may be encountered within the lower portion of the fill material. The presence of perched water appears to be seasonal and is the result of precipitation infiltrating the fill material and percolating down to the denser, less permeable lacustrine deposits.

1.4 Site Environmental Conditions

Construction and demolition material intermixed with soil fill and minor amounts of metal fragments, cinders and slag was confirmed to exist within the former disposal area located in the southwest corner of the Strippit property. With the exception of a small area in the southwest corner of the former disposal area, no anomalous staining, odors and/or PID readings were observed or recorded. No intact drums nor evidence of hazardous waste disposal were encountered during investigative activities conducted at the site. The observations suggest that the fill underlying this area of the Strippit property is for the most part, inert construction and demolition debris.

In an approximate 50-foot by 50-foot area adjacent to the southern and western property lines, slightly elevated PID readings were observed. The detected PID readings were encountered in the natural soils underlying the fill material. The thickness of this layer appears to be approximately two feet to three feet. Subsequent analysis of a representative subsurface soil sample detected tetrachlorethene at 360 ppb. Test pit excavations surrounding the area did not encounter detectable PID readings or odors. Observation of the test pits within the area did not identify a potential source (e.g. drums) within the overlying fill. No recordable PID readings were observed in the overlying fill material in this area. The presence of the tetrachlorethene in the natural soils underlying the fill in this area appears to be confined to the area, and appear to be a residual from a past activity in this area. This compound was not detected in the underlying water bearing zone. At 360 ppb, the concentration of tetrachloroethene is less than the recommended soil cleanup objective of 1.4 ppm as set forth in the NYSDEC Technical and Administrative Guidance Memorandum (TAGM), 92-4046.

Analysis of ground water samples obtained from the five on-site monitoring wells (Drawing SR 1.1, Appendix A) screened within the uppermost water bearing zone did not detect any volatile or semi-volatile organic constituents in the ground water downgradient of the fill area. Three constituents were detected, at low concentrations, in the ground water underlying the upgradient portion of the fill area.

The three detected constituents were acctone, phenol and phenanthrene. Acctone was detected in both upgradient wells GW-2 and GW-5 at concentrations of 17 ppb and 30 ppb. Phenanthrene was detected in only GW-5 at an estimated value below the detection limit of 1 ppb. The ground water guidance value for both of these compounds is 50 ppb. None of the aforementioned concentrations exceed this guidance value.

Phenol was detected in GW-2 at 12 ppb which is slightly above the method detection limit of 10 ppb. The ground water standard for phenol is 1 ppb. To date, previous investigative work at the Strippit property has not detected the constituent, phenol, in ground water, surface water, stream sediments or soils. Additionally, although detected in an upgradient well, phenol was

not detected in the downgradient wells. Due to the absence of phenol being previously detected at the Strippit property and its presence in only an upgradient well, its difficult to attribute the detection of phenol in the ground water to past site activities.

In addition to volatile and semi-volatile organic analysis on the ground water samples, eight total and soluble metals were analyzed. The resultant soluble metal concentrations, which tends to be more representative of the actual metal concentrations dissolved in ground water, identified only soluble magnesium exceeding a regulatory ground water standard in downgradient well GW-4. The magnesium standard is primarily set for aesthetic reasons (e.g. taste, odor, discoloration) and not to protect public health and the environment. Therefore, exceedance of the standard does not seem to pose a risk to public health and the environment requiring direct remedial action.

2.0 IRM WORK PLAN OBJECTIVES

The environmental conditions presented in Section 1.4 do not pose a significant threat to the public and the environment. However, the former disposal area does contain regulated industrial waste. Therefore, it is proposed that the former disposal area be closed to properly manage it.

The proposed closure of the former disposal area will be achieved through containment of the construction and demolition debris which is intermixed with a minor amount of industrial type waste (i.e. cinders, slag, and metal fragments). Drawing 1.2, Appendix A, illustrates the former disposal area. Presently, the fill material is overlain by a veneer of soil fill and separated from the uppermost water bearing zone by approximately 50 feet to 55 feet of dense, unsaturated, lacustrine deposits. These naturally occurring dense lacustrine deposits significantly minimizes the vertical migration of water which infiltrates the fill material as a result of precipitation. Hence, containment of the fill material will be accomplished by capping the disposal area. The placement of a cap over the fill will negate the potential for precipitation to infiltrate the fill material, further reducing the possibility of vertical migration of water through the fill and subsequently into the underlying uppermost water bearing zone.

The placement of a cap over the disposal area will also reduce to eliminate the potential for perched water to occur within the fill. As discussed previously, perched water was generally encountered within the upper portion of the in-situ soils underlying the fill material. The occurrence of perched water within these upper soils appears to be seasonal and does not appear to be continuous across the area of concern. The presence of perched water underlying the area of concern is the result of infiltrating precipitation. Capping of the area of concern should remove this source.

The proposed closure plan for the former disposal area is placement of a final cover system over the former disposal area and post-closure monitoring and maintenance consistently with the criteria/requirements contained in 6NYCRR Part 360-2.15: Landfill closure and post-closure criteria.

3.0 SUPPLEMENTAL IRM WORK PLAN DATA

3.1 Overview

In order to comply with the criteria/requirements contained in 6NYCRR Part 360-2.15, supplemental data needs were identified and addressed during the preparation of this document. First, Part 360-2.15 requires that a hydrogeologic investigation be performed. This requirement was satisfied via a Phase II Investigation performed by Engineering-Science, Inc. and a subsequent limited field investigation conducted by Day Engineering, P.C.. The finding of both these investigative efforts are reported in the following documents:

- "Engineering Investigations at Inactive Hazardous Waste Sites, Phase II Investigations, Houdaille Industries-Strippit Division, Village of Akron, Site No.915053, Eric County", Engineering-Science, Inc., March 1991.
- "Field Investigation Report, Strippit, Inc., Akron, New York, DEC Site No. 915053, Day Engineering, Inc., July 1993.

Sections 1.3 and 1.4 of this document summarize the findings to date.

Two remaining criteria/requirements specific to the site and the proposed closure which had previously not been assessed were the presence of explosive gas at or near the landfill and surface leachate seeps. These two items were addressed and are discussed in the following subsections.

3.2 Explosive Gas Survey

On August 19, 1993 Day Engineering personnel conducted an explosive gas investigation at the disposal area. The objective of the investigation was to determine if any decomposition gases from the landfill area in excess or equal to 25% of the lower explosive limit (LEL) were present and/or migrating off-site. The investigation was performed in accordance with the requirements set forth in 6NYCRR Part 360-2.17(f).

The investigative approach utilized sampling points placed at 100-foot intervals around the toe of the landfill. A variance to this spacing approach was necessary when the property line was less than 100 feet or when subsurface interferences were encountered. A map illustrating the sampling locations has been prepared and submitted as Drawing SR 1.3, Appendix A.

At each sampling location a slide-hammer with an approximate 1/2 inch diameter steel rod was utilized to advance shallow probe holes into the soil. Typical probe hole depth was 3 1/2 feet. In some cases, shallower holes were advanced due to underground interferences (e.g., rocks).

A reusable teflon tube was inserted into the probe hole and the top of the resulting annulus between the teflon tube and probe hole was sealed at the ground surface using a mixture of bentonite clay and water. A Gastech Model GAS1939 OX combustible gas/oxygen meter was attached to the teflon tube and a reading was obtained after the pump in the meter was allowed to evacuate between 1/2 to 1 liter of soil gas. The pump rate of the gastech meter was measured at approximately 1.7 liters per minute. The readings were recorded on field log sheets.

The Gastech combustible gas/oxygen meter is a portable handheld unit that detects combustible gas levels and oxygen deficient environments. The combustibles are detected over a range of 0-100% of the Lower Explosive Limit (LEL).

Eighteen survey points were placed around and within the fill area (Drawing SR 1.3). Survey points 05 and 15 exhibited readings of 0.2% and 2.0% of the LEL. The remaining sixteen survey location points did not detect the presence of decomposition gases. The readings obtained do not warrant further investigation or concern at this time.

3.3 Surface Leachate Survey

During the field activity associated with the limited field investigation and the subsequent explosive gas survey, visual inspections were performed for the presence of seeps along the toe of slope of the former disposal area. At the time of the inspections, no evidence of surface seeps were observed.

4.0 IRM WORK PLAN TASKS

4.1 Site Preparation

4.1.1 Clearing and Grubbing

The surface area of the landfill covers an area of approximately 2.3 acres(Drawing C 1, Appendix A). An estimated 1.5 acres is covered with brush and smaller trees (maximum trunk diameter less than 12").

Prior to commencing any excavation/grading work the site will be cleared and grubbed. All boulders, roots, vegetation and other objects which might be harmful to the geomembrane liner will be removed from the site.

4.1.2 Erosion Control

Temporary ditches along toe of slope will be installed and a siltation basin provided prior to performing general earthwork. Straw bales, dikes, berms, silt fences or other devices will be used to minimize silt run-off during construction. Erosion control detail alternatives are shown on Drawing C 1.

4.1.3 Existing Gas Well

An existing natural gas well and two monitoring wells are locate within the proposed closure area of the landfill (Drawing C 1, Appendix A). Since the gas well is currently producing enough gas to be economic, Strippit, Inc. prefers not to abandon the well at this time. Hence, the gas well and associated piping and tanks will be retrofitted to enable placement of the final cover system.

The proposed modifications will require raising the gas well head and necessary piping to an appropriate height above proposed final grade and temporary capping (Drawing C 5). The adjacent tank will be removed from the system and temporarily stored prior to grading. Upon completion of the final cover, the tank will be reinstalled, the piping connected and the gas well returned to service.

As noted, two existing monitoring wells are also located within the proposed closure area. The two monitoring wells, GW-2 and GW-5, have been included in the post closure monitoring program. Hence, These two monitoring wells will require retrofitting prior to placement of the final cover system (see Drawing C 5 for details).

4.1.4 Establishing Sub-grade

During sub-grade preparation, construction activities will conform to a site specific heath and safety plan. Preparation and subsequent submittal of this health and safety plan to the NYSDEC will follow the receipt of approval of the proposed IRM. The proposed sequence of construction is for removing the side slopes along the northerly and westerly property lines of the landfill. These construction operations will be accomplished by personnel trained in OSHA regulations relating to work on an inactive hazardous waste site.

Removal and regrading will be accomplished by bulldozers. The fill material along the western and northern boundaries of the landfill will be pushed to the top of the landfill and regraded to establish the sub-base prior to placement of an earthen soil cover over the sub-base to bring the reworked area up to the contours shown on the sub-grade plan (Drawing C 2, Appendix A). Side slopes will be trimmed to maintain a grade of 33% or less. The upper surface of the sub-base will be sloped at 4% minimum.

During removal and regrading activities if perched water is encountered, provisions will be implemented to confine the encountered perched water to the property. These temporary provisions/features may consist of dikes, ditches, berms, swales, etc..

After excavation and grading for sub-base preparation has been accomplished, the entire area will be rolled using appropriately sized compaction equipment making a minimum of three passes to reconsolidate any fill material previously displaced or toosened by the excavation/grading operations. Placement of the temporary soil cover will not be permitted until the reworked materials have been consolidated to the satisfaction of the engineer.

After removal/grading operations have been completed a layer of cover material, 6" in depth shall be placed atop the sub-base. The cover material will be clay, silt and sand, free of debris, organic and frozen material with no material greater than five millimeters (5 mm) in size. The purpose of the cover material is to provide a suitable base for the proposed geomembrane. Also, placement of this cover layer over the fill separates the fill material from personnel and equipment during the construction of the final cover system. Construction activities following placement of this soil cover will not require performance under the OSHA guidelines for work on an inactive hazardous waste site.

During the activities associated with preparation of the sub-base if any drums, barrels, containers, anomalous fill or other items or objects requiring evaluation are encountered, the NYSDEC will be promptly notified and sub-base construction activity in the area of concern will not proceed until concurrence on how the area will be addressed has been received.

4.2 Final Cover System

4.2.1 Geomembrane Liner

After the 6" soil cover material has been placed and thoroughly compacted to the sub-grade contours, a low permeability geomembrane liner having a maximum coefficient of permeability of 1 x 10⁻¹² centimeters per second will be installed.

The geomembrane liner material will have a demonstrated hydraulic conductivity less than 1 \times 10^{-12} centimeters per second and chemical and physical resistance not adversely affected by waste placement or leachate generated. Documentation will be submitted to NYSDEC demonstrating the chemical compatibility of the geomembrane liner material chosen. The geomembrane will be a 40 mil POLY-FLEX HPDE or equivalent.

Geomembranes will be installed in accordance with the requirements of the approved engineering plans, report, and specifications and manufacturer's recommendations, such as:

- The surface of the supporting soil below which the geosynthetic material will be installed will be reasonably free of stones, organic matter, irregularities, protrusions, loose soil, and any abrupt changes in grade that could damage the geosynthetic.
- The anchor trench will be excavated to the length and width prescribed on the design drawing (Drawing C 5). Noting that along the western boundary of the proposed closure area, the bottom of the anchor trench will at the top of the dense lacustrine sand and silt deposits (i.e., approximately 4 feet to 5 feet below sub-base grade).
- o Field seams will be oriented parallel to the line of maximum slope (i.e., oriented along, not across the slope). In corners and irregularly shaped locations, the number of field seams will be minimized. No horizontal seam will be less than five feet from the toe of slope toward the inside of the cell
- o The materials will be seamed using an appropriate method acceptable to the NYSDEC. Seam testing will be in accordance with the relevant requirements of the Part 360 regulation.
- The seam area will be free of moisture, dust, dirt, debris, and foreign material before seaming.

- o Field seaming will not be done when the ambient air temperature is below 5 C, above 40 o C, during precipitation, or when winds are in excess of 20 miles per hour.
- The field crew foreman of the liner installer will have a documented minimum qualification of successful installation experience of at least 50 acres of previous landfill or comparable geosynthetic systems on a minimum of five different projects.
- 360-2.13K Certification Requirements The project engineer will include in the construction certification report a discussion of the approved data resulting from the quality assurance and quality control testing required in this section. The results of the testing must be included in the construction certification report including documentation of any failed test results, and descriptions of the procedures used to correct the failed material, and statements of the retesting performed.
- The project engineer will certify the quality control testing of any geosynthetic materials ensuring that the material and workmanship meet the requirements of the approved engineering plans, reports, and specifications and 6 NYCRR Part 360.

4.2.2 Barrier Protection Layer

A barrier protection layer of soil not less than 24 inches thick will be installed on top of the geomembrane liner. Material specifications, installation methods and compaction specifications will protect the geomembrane liner from potential breaks in the liner integrity, and to resist erosion and be stable on the final design slopes of the landfill cover.

The barrier protection layer will consist of six (6) inches of soil which will conform with the specifications of the soil immediately underlying the geomembrane liner. The remaining 18 inches of the 24-inch barrier protective layer will be similar in physical characteristics to the underlying six inches, except it may contain some stones, pebbles, lumps and rock fragments up to 75 mm in greatest diameter.

4.2.3 Top **S**oil

A layer of top soil will be placed to the final contours shown on Drawing C 3, Appendix A. The top soil shall be free from refuse, any material toxic to plant growth, subsoil, woody vegetation and stumps, roots brush, stones, clay lumps or similar objects larger than two inches in greatest dimension. The top soil shall also meet the following requirements:

- 1. The pH of the material shall be between 5.5 and 7.6 s.u..
- 2. The organic content shall be not less than 2% nor greater than 20%.

The top soil layer will be at least 6" deep. A thicker layer may be required if a suitable vegetative cover cannot be maintained. Ground cover shall be crown vetch with cover crop of annual rye grass.

4.2.4 Acc**es**s

Access to the closed landfill will be limited. The existing fence and gates on the northern portion of the employee parking area adjacent to Clarence Center Road will be used to limit access off of Clarence Center Road. During business, a guard monitors access through the gates. After business hours, the gates are locked. Signs will be posted along the western and southern boundaries of the closed landfill.

4.2.5 Runoff Controls/Drainage

During construction, storm water runoff will be controlled by siltation ponds, straw bails, and silt fences, as necessary, to minimize silt washing from the site (Drawing C 2).

After construction, run-off will be intercepted by proposed drainage channels along the toe of slope on both the northerly and westerly boundaries of the landfill. Those channels will merge and flow northerly into an existing drainage ditch which crosses Clarence Center Road via a 24" diameter corrugated metal culvert. The channel continues in a northerly direction until it's ultimate merger with Murder Creek.

The computed run-off is 3.2 cfs or 1436 gpm, which amounts to approximately 1/3 of the total run-off which has been previously computed for this site (see Appendix B, Drainage Calculations). The building roof and parking lots contribute the major portion of flow to the main drainage channel and swale, 18 cfs as compared to 3.2 cfs from the landfill. The quantity of flow from the landfill is therefore considered to have minimal impact on the overall drainage system.

4.2.6 A Quality Assurance/Control Plan

A quality assurance/control QA/QC plan report shall be submitted prior to the start of construction. Said plan shall include but not be limited to the following features:

(1) The managerial personnel representing the Industry (Strippit), the consulting engineer and the successful bidder (contractor) will be identified. Resumes for each person will be included in the report.

- (2) The required qualifications for each member of the QA/QC team will be stipulated including the contractor, consulting engineer, and the industry. Such personnel shall include the project managers, inspector(s), and construction crews.
- (3) Testing procedures and protocol will be established and conducted by an independent laboratory. The laboratory selected shall be responsible for the submission of a description of the QA and QC testing protocols for every major phase of construction, which shall include, at a minimum, the frequency of inspection, field testing, sampling for laboratory testing, the sampling and field testing procedures and equipment to be utilized, the calibration of field testing equipment, the frequency of performance audits, the sampling size, the laboratory procedures to be utilized, the calibration of laboratory equipment and QA/QC of laboratory procedures, the limits for test failure, and description of the corrective procedures to be used upon test failure. Approval by NYSDEC must be obtained prior to the start of the construction and/or sampling and testing.

4.3 Post Closure Monitoring and Maintenance

4.3.1 Ground Water Monitoring

Upon completion and certification of the final cover system, a post closure ground water monitoring program will be implemented. Five existing monitoring wells are located in the vicinity of the former disposal area (Drawing SR 1.1, Appendix A). Two of the existing monitoring wells, GW-2 and GW-5, are upgradient monitoring wells and the remaining three wells, GW-1, GW-3 and GW-4 are downgradient monitoring wells. It is proposed that the existing wells be incorporated into the post closure monitoring plan. The boring log and well construction detail for each of the existing monitoring wells are submitted in Appendix C.

Two ground water sampling and analytical events have been conducted at monitoring wells GW-1, GW-2, GW-3 and GW-4. One ground water sampling and analytical event has been conducted at monitoring well GW-5. The initial ground water sampling and analytical event was performed in June 1990 and included monitoring wells GW-1 through GW-4. The analytical program for the ground water samples included Target Compound List (TCL) organic compounds (i.e., volatile, semi-volatile, pesticides and PCB's), Target Analyte List (TAL) metals and cyanide.

The second sampling and analytical event was performed in February 1993 on monitoring wells GW-1 through GW-5. The analytical program for the second sampling event included TCL

volatile organics, TCL semi-volatile organics, cyanide and selected total and soluble metals (i.e., aluminum, barium, cobalt, iron, magnesium, manganese, vanadium and zinc).

The proposed post closure monitoring program is based on the existing analytical data and the observed contents within the disposal area (i.e., inert construction and demolition debri and minor amounts of industrial waste). For this reason, the following proposed post-closure analytical program is site specific. The site specific post-closure analytical program, although not as inclusive as the suggested parameters presented in Part 360-2.11(c)(4)(iv)(6), will enable Strippit, Inc. to monitor the ground water quality within the uppermost water bearing zone during post-closure for the parameters specific to past disposal practices. The ground water monitoring program will be performed on a quarterly basis during the first year following completion of the final cover system, and semi-annually thereafter. The proposed analytical program is:

- Volatile Organic Compounds (USEPA Method 8240)
- Semi Volatile Compounds (USEPA Method 8270: acid extractables only)
- Selected Metals (total and soluble)
 - Barium
 - Iron
 - Magnesium
 - Manganese
- Field Parameters
 - pH
 - Specific Conductance
 - Temperature
 - Turbidity

The post closure monitoring program will be performed for a period of thirty years. At the completion of each yearly monitoring period, the program will be evaluated and a recommendation for a subsequent program, if necessary, will be prepared and submitted to the NYSDEC for comment and approval. During the post closure monitoring program annual summary reports will be submitted to the NYSDEC. Analytical results will be forward to the NYSDEC upon receipt and verification.

4.3.2 Post Closure Maintenance

The integrity of the final cover system will be monitored during the aforementioned proposed sampling schedule. The closed disposal area will be visually inspected. The areas of interest during the inspection will include the cover integrity, slopes, cover vegetation and drainage structures. In addition, observations will be made to assess the presence/absence of surface

seeps and the toe of slope. If problems are identified during the inspections, they will be addressed and corrected, as warranted. The quarterly inspection reports and corrective actions, if necessary, will be submitted with the aforementioned annual ground water summary report.

Also, as part of the post closure monitoring and maintenance program, a post closure monitoring and maintenance operation manual will be prepared and submitted to the NYSDEC for review prior to completion of closure.

5.0 SCHEDULE

This section presents the proposed schedule for implementation of the proposed IRM. The following timeframe begins upon receipt of approval from NYSDEC for the proposed IRM. The projected tasks for completion of the proposed IRM and the envisioned timeframe for each task is:

- o Receipt of NYSDEC letter of acceptance
- O Develop and submit to NYSDEC a site specific health and safety plan and a post-closure monitoring and maintenance plan four weeks following letter of acceptance
- o Develop bid specifications concurrent with above task
- o Send out bids to selected contractors one week following receipt of NYSDEC approval of a site specific health and safety plan
- o Evaluate bids and select a contractor to be completed no later than January 1994
- O Construction and completion of the final cover system construction to begin late Spring 1994, dependent on weather conditions, and to be completed no later than September 30, 1994
- o Preparation and submittal of an Engineering Certification Report to NYSDEC within 45 days of completion of final cover system

APPENDIX B

SUMMARY OF COMPANY RECORDS AND PERSONNEL INTERVIEWS The following text is a compilation of information obtained through review of company records and personnel interviews. This document was generated by Mr. Robert Johnson, Manufacturing Engineering Manager, Strippit, Inc.

SUMMARY: Heat Treating Sludge

The disposal of heat treatment sludge (from 1956 to 1975) at the refuse site located behind the facility is referenced by various EPA/NYSDEC reports from 1978 through 1991. The source of information for such reports includes both company responses to environmental questionnaires, as well as interviews with former employee Ken Bartha (retired). Recently conducted interviews of Mr. Bartha and other former employees directly involved with waste disposal generally confirm the information on heat treatment sludge disposal reported by the government.

Company records seem to indicate that from 1956 to 1975 the heat treat sludge was disposed of in the refuse site with volumes equalling three tons/year (12 drums @ 500 pounds/drum), consistent with the manufacturing process in existence at the time. Chemical analysis reports of the sludge samples indicate contents of sodium chloride, barium chloride, potassium nitrate, sodium nitrite, sodium nitrate compounds and metal scale. The sludge was apparently taken to the refuse disposal site and disposed of in an open pit in a location along the western boundary of the refuse disposal site.

It is not clear if the sludge was disposed of in open top barrels or was dumped on the site with barrel removed. Although there is a question about whether Buffalo Arms produced waste cyanide salts, no one interviewed has any direct knowledge of Buffalo Arms disposal practices.

INTERVIEWS: Heat Treat Sludge

1. <u>Clark Ralph</u>, Maintenance Supervisor at Akron Site, 1956-1968

9/12/91 - Letter

Indicates disposal of heat treat salt sludge 3-4 times per year along the western boundary of the disposal site.

10/11/91 - Letter

"...repairing 'salt furnaces' the brick and salt was disposed upon the ground."

2. <u>Bob Webster</u>, Maintenance Supervisor (1969-1989)

8/20/91 - Phone Interview - Paraphrase

Prior to 1975, salt waste may have been put out there in drums. About 12 drums per year could be correct.

3. <u>Ken Bartha</u>, Employee (1950s-1991). Involvement with landfill and hazardous materials about 1975-1991.

8/20/91 - Interview - Paraphrase

I cannot answer for sure and never saw firsthand, but I suspect that the heat treat sludge, drum and all, was thrown into the open pit. The drum would then corrode quickly. It would be too difficult to get the salt out.

In the 1980 inspection, the investigator saw 12 drums of heat treat salt ready for off-site disposal. He never saw 216 drums...that was a calculated amount.

No drums were put under the dirt of the 1979 plant expansion.

REFERENCES: Heat Treat Sludge

1. Phase II Investigation, Executive Summary, Page I-1, NYSDEC, March, 1991.

"During the period 1956-1975, Strippit disposed of approximately... three tons per year of heat treatment sludge..." (NYSDEC, 1978)

"An estimated 216 drums of heat treatment sludge waste were alleged to be stored on site in 1980." (USEPA, 1980)

"... and non combustibles were buried in the landfill." (Bartha, 1987)

 Phase II Investigation, Site Assessment, Page IV-4, NYSDEC, March, 1991

"According to the USEPA site assessment, the heat treatment sludge poses a hazard to groundwater, although the presence of hazardous substances in the sludge is not known." (USEPA, 1980)

3. Phase II Workplan, Page 1, NYSDEC, March, 1990

"Some of the heat treatment sludge was stored on the site. In 1979, the waste site, including the heat treatment sludge drums, were covered with an approximately 16,000 cubic yards of clean fill from an on-site plant expansion project." (No reference)

"Houdaille disposed of approximately....three tons per year of heat treatment sludge from the metal fabrication operations." (No reference)

4. NUS 1989, Final Draft Site Inspection Report for USEPA, Executive Summary, January 19, 1989

"From 1956 to 1979, approximately....three tons per year of heat treatment sludge...were disposed of in a two acre landfill immediately behind the plant, In 1979, the disposal area was covered with approximately five feet of clean fill during a plant expansion." (No reference)

- 5. Bartha 1987, Interview with R. Steele of ES, January 20, 1987
- "Houdaille used the site for waste disposal of heat treat sludge, ..." (Personal Interview)
- 6. <u>Phase I Investigation, Executive Summary, NYSDEC</u>, January, 1986

"Starting in 1956, Houdaille disposed of approximately...three tons per year of heat treatment sludge....(NYSDEC, 1982) in a two acre area on site." (NYSDEC, 1982)

7. Phase I Investigation, Site Assessment, Page IV-12, NYSDEC Site History:

"...other non-combustible material such as the heat treatment sludge were left uncovered on the site (ES and D&M Site Inspection, 1985). Some of the heat treatment sludge was stored in an estimated 216 drums on the site. In 1979, the waste site, including the heat treatment sludge drums, were covered with approximately 16,000 cubic yards of clean fill from an on-site plant expansion project (EPA, 1980).

Site Contamination:

"According to Houdaille Industries (NYSDEC, 1978; Bartha, 1985), approximately....three tons/year of heat treatment sludge (1950-1979)....were disposed of in the on-site landfill."

"According to an EPA site assessment (EPA, 1980), the heat treatment sludge also poses a hazard to ground waters, although the presence of hazardous substances in the sludge is not known. Some of the heat treatment sludge was stored in approximately 216 drums. In 1979, the site was covered, including the drums containing heat treatment sludge, with approximately 16,000 cubic yards of clean fill."

8. <u>Phase I Investigation. Preliminary Application of Hazard Ranking System, NYSDEC</u>

"Beginning in 1956, Houdaille disposed approximately...three tons/year of heat treatment sludge...at the site." (NYSDEC, 1987).

"...and sludge were landfilled on site (ES and D & M Site Inspection, 1985)... An estimated 216 drums of heat treatment sludge waste are alleged to be disposed on site (EPA, 1980).

"Houdaille Industries, Strippit Division, disposed of...heat treatment sludge...on a 2-acre site located behind their manufacturing facility."

9. <u>EPA Potential Hazardous Waste Site Inspection Report,</u> Conducted by R. Steele (ES) and Eileen Gilligan (Geologist), Information provided by Ken Bartha on site, March 27, 1985

"Part II Waste Information

III. Waste Type

Sludge 57 Tons Heat Treatment Sludge"

"Part IV

IV. Containment

... and heat treatment sludge were disposed of directly on the ground...There are reports of storing heat treatment sludge in drums on the site." (Interagency Task Force Report, 1978, and Site Inspection 3/27/85.)

"Part VI

V. Other

Several rusty drums, partially exposed were observed along the outer edges of the landfill area. The drums were presumed to be leaking, because of their condition." (Site Inspection 3/27/85)

"Part II"

In April, 1980, the EPA investigated the disposal of heat treatment sludge on site. The investigator found 12 drums of sludge waste, which was used in metal working processes and contains barium chloride and sodium and nitrate salts. An additional 216 drums were estimated to be on site. (EPA Hazardous Waste Site Assessment 4/15/80.) (Note: Also contacted for this report were Peter Buechi [NYSDEC] who was the principal site contact for the 4/15/80 EPA Hazardous Waste Site Assessment also referred to as USEPA, 1980) and Ron Koczaja of EC Division of Environment and Planning, who made a site inspection in 1978 for the Bureau of Water Resources and concluded that the landfill was properly closed, but requested an analysis of the heat treatment sludge on 12/1/78.)

10. NYSDEC Inactive Hazardous Waste Disposal Site Report, January 24, 1985

"Strippit Division...used this site to dispose...heat treatment sludge during the period 1955-1975". (No reference)

"Disposed heat treatment sludge three tons per year suspected." (No reference)

(Report by Peter Buechi, Associate Sanitary Engineer)

11. Bartha, 1985 Interview conducted by R. Steel and J. Batts (ES) on 3/27/85

Site inspection as a part of EPA Potential Hazardous Waste Site Inspection Report of 3/27/85

"Wastes disposed of at the site included...heat treatment sludgenon-combustibles were left on site."

12. ECDEP, 1984 Site # 915053 Report, Page 1

"Background

Prior inspection reports and ECDEP files indicate that the Strippit Corporation disposed of...heat treating sludge at this site."

"Sampling Results

The sample does not show any analysis for barium. However, barium salts were a major component of the heat treating sludge that was disposed of at this site."

13. NYSDEC, 1983 Inactive Hazardous Waste Disposal Site Report, Page 9-203

"Type and Quantity of Hazardous Wastes Disposed

Type Quantity

Heat Treatment Sludge 3 tons/year"

"Site Description:

Strippit Division of Houdaille Industries and its predecessors used this site to dispose...and heat treatment sludge during the period 1955-1975. (No reference)

Persons completing this form: Abul Barkat, Sr. Sanitary Engineer Peter Buechi, Associate Sr. Sanitary Engineer.

14. NYSDEC Hazardous Waste Disposal Site Questionnaire, 1983

Information pr	ovided by Bar	otha				
Disposal Site	Hazardous <u>Waste</u>	EPA Code	Quantity	<u>Solid</u>	Disposa <u>Dates</u>	l <u>Transporter</u>
Strippit, Akron, N.Y.	Heat Treat Sludge	F011	3 tons/yr	X	1 956- 1975	
Niagara Sanitation	Heat Treat Sludge	F011	.6 tons/yr	X	19 75- 1978	Niagara Sanitation

15. NYSDEC, 1982 Site Assessment Report

"History - The following has been deposited...heat treatment sludge (3 tons/yr)..." (No reference)

16. <u>USEPA, 1980</u>, <u>Potential Hazardous Waste Site Identification</u>, April 14,

"Site Description - Strippit Division solid waste disposal site used 1957 to 1975 for disposal of about 216 drums of heat treatment sludge."
Report by Peter Buechi, Associate
Sanitary Engineer, DEC

17. Letter Bartha to R. Koczaja, Bureau of Water Resources, EC

Letter written in response to R. Koczaja request for analysis of heat treatment sludge (12/1/78). The letter said the sludge was not toxic. Lab analysis from the manufacturer of the heat treat salts, E. Houghton, was included indicating presence of various barium compounds.

- 18. Various documents written by Bartha in preparation for response to R. Koczaja request for analysis of heat treatment sludge (12/1/78). Included is a documented phone conversation with an engineer from E. Houghton, the manufacturer of the heat treatment salts. The document lists the expected composition of the sludge: sodium chloride, barium chloride, potassium nitrate, sodium nitrite, sodium nitrate, scale, and oxides of above. Included also is the lab analysis of the heat treatment sludge by E. Houghton indicating the presence of barium compounds.

 January, 1979.
- 19. <u>Letter from R. Koczaja</u>, Bureau of Water Resources ECDEP, December 1, 1978

"Waste Disposal Site Inspection

We would request that you forward results of the chemical analyses of the solidified waste heat treatment sludge to this office...."

- 20. NYSDEC 1978 Interagency Task Force on Hazardous Wastes Report, Information provided by Bartha, November 1978
- "IV. Industrial Waste Production
- 2. Products 1930-1975 Heat Treat Sludge 1956-1975
- 3. On site Waste Treatment Buried all non combustibles on refuse disposal site 1956-1975
- V. Identify all Treatment of Disposal Sites in Erie or Niagara County used since 1930.

Lancaster Sanitary Landfill

Heat Treat Sludge Solid Qty.: 3 ton/yr Type of Container: 55-gallon drums (Pencil note, Bartha: 10-15 drums) Nacl Ball 2 KNO3 Na NO2 Na NO3 Na No3 Na O, K, O, Ba O

SUMMARY: Solvents/Paints

The disposal of solvents and paint waste at the refuse site located behind the facility is referenced in various EPA/NYSDEC reports from 1978 through 1991. The source of information includes both company responses to environmental questionnaires, as well as interviews with former employee Ken Bartha (retired). Recently conducted interviews of other former employees directly involved with waste disposal sheds some light on the situation.

From the information accumulated, evidence from interviews indicates that during the 1956-1970 time period, paint thinner was poured onto trash for use as a fire starter. The approximate location of the burning is recalled by Clark Ralph, a former employee and eyewitness, as located northwest of the former railroad spur within the disposal site. Aerial photographs from the 1960s time period seem to give evidence to this location also. There is no indication that any thinner was ever put into the landfill in drums or poured onto the ground as a means of disposal, nor would it be logical or necessary to do so.

The situation surrounding the disposal of chlorinated solvents is not as clear, as this type of solvent is not usable as a fire starter. Evidence supplied by Clark Ralph indicates that, to the best of his knowledge, these solvents were taken off site by commercial disposal haulers (possibly for reclaiming).

There is no evidence that would indicate chlorinated solvents were poured on the ground, and all interviews with former employees directly involved with waste disposal during the period 1956-1975 state that no drums of any solvent were put into the landfill.

REFERENCES: Solvents/Paints

1. Phase II Investigation, Executive Summary, Page I-1, 1991 (NYSDEC)

"All combustible materials were burned at the disposal site and the resulting ash...were buried in the landfill." (Bartha, 1987) "Waste solvents generated at the plant were reportedly used to ignite the combustible materials in the disposal area." (Bartha, 1985)

2. Phase II Investigation, Site Assessment, Page IV-1, 1991, (NYSDEC)

"All combustible materials were burned at the site and the resulting ash were buried in the landfill. (Bartha, 1987) "Waste solvents generated at the plant were reportedly used to ignite the combustible materials at the disposal area." (Bartha, 1985)

3. Phase II Investigation, Site Contamination Assessment, Page IV-4, 1991, (NYSDEC)

"The solvents and combustible refuse were burned and the resulting ash was landfilled."

4. Phase II Workplan, Introduction, Page 1, 1990 (NYSDEC)

"An estimated five 55-gallon drums/year of waste solvents generated at the plant was used as an accelerator to open burn the plant's solid waste."

5. Site Inspection Report, 1989, (NUS)

"From 1956 to 1979, approximately 20,000 gallons per year of cutting oils, coolants, and degreasing solvents...were disposed of in a 2-acre landfill immediately behind the plant."

6. Interview of Ken Bartha, 1987, (Steele, ES)

"Solvents were used to burn plant refuse."

7. Phase I Investigation, Executive Summary, Page I-1, 1986, (NYSDEC)

"An estimated five 55-gallon drums/year of waste solvent generated at the plant was used to open burn the plant's solid waste. Solvents were not known to be disposed of on the ground."

8. Phase I Investigation, Site Assessment, Phage IV-1, 1986, (NYSDEC)

"The ash from open burning of solid waste...were left uncovered on the site." (ES and D&M Site Inspection, 1985)

9. Phase I Investigation, Site Contamination, Page IV-4, 1986, (NYSDEC)

"The solvents and combustible refuse were burned and the resulting ash...were landfilled."

10. Phase I, Preliminary Application of Hazard Ranking System, 1986, (NYSDEC)

"Solvents generated from plant manufacturing operations were used to burn the plant's combustible wastes. The resulting ash...were landfilled on site." (ES and D&M Site Inspection, 1985) "No solvent wastes were known to have been poured directly on the ground." (Bartha, 1985)

11. Interview of Ken Bartha, 1985, (Steele, ES)

"Combustible materials were burned at the disposal site and the resulting ash...were disposed on site. No solvents were known to have been disposed directly on the ground at the site. Solvents generated at the plant were used as starter fluid for the solid wastes." (Bartha, 1985)

12. Interview of Ken Bartha, 1985, (Steele, ES)

"Small quantities of waste solvents, five 55-gallon drums per year, were burned on site. The solvent was used as a fire starter for the burning of the plant's solid waste. No solvents were poured on the ground."

13. Potential Hazardous Waste Site, 1985, (EPA)

"Solvents...were poured onto plant refuse and burned. The resulting ash is disposed on site."

"Solvents...were poured onto plant-generated refuse and burned. Most of the...solvents were probably destroyed. The ash from that burning was disposed of on site."

14. NYSDEC Inactive Hazardous Waste Disposal Site Report, 1985, (NYSDEC)

"...used this site to dispose solvents, paint..."

15. Hazardous Waste Disposal Questionnaire, 1984 (NYSDEC)

Reference: "Generator Form Part-II"

Hazardous Waste Disposal Site: Strippit, Di-Acro

Description of Hazardous Waste: Chlorinated solvents

EPA Waste Code: F001

Waste Disposed of Quantity of Waste (tons): 2.4 tons/yr

Form: Liquid

Waste Disposal Dates: 1956-1975

15. Reference: "Generator Form Part-II" (Cont.)

Hazardous Waste Disposal Site: Strippit, Di-Acro

Description of Hazardous Waste: Paint Thinner

EPA Waste Code: D001

Waste Disposed of Quantity of Waste (tons): 4.4 tons/yr

Form: Liquid

Waste Disposal Dates: 1956-1975

16. NYSDEC Inactive Hazardous Waste Disposal Site Report, 1983 (NYSDEC)

"Strippit Division of Houdaille Industries and its predecessors used this site to dispose...solvents, paint...during the period 1956-1975."

Hazardous Waste Disposed - Suspected

<u>Type</u> <u>Quantity</u>

Cutting oils, solvents, paints 20,000 gallons/yr

Note by Ken Bartha indicates "burned".

17. NYSDEC Site Profile Report, 1982, (NYSDEC)

"The following has been deposited: cutting oils, solvents, paint (20,000 gal/yr),..."

18. <u>Interagency Task Force on Hazardous Waste Hearing Officer's Report, 1979</u>

"...solvents, water with paint contamination (20,000 gallons/yr) and paint thinners and filters were also disposed of on premises until 1975."

19. Interagency Task Force on Hazardous Waste, 1978

On Site Waste Treatment (1930 - 1975)

a. Incinerate all combustibles 1956-1970

20. Ken Bartha Letter to G. Lawrie, 1978

"The only information I have received is that prior to 1975, cutting fluids, paint, thinner, etc. were dumped in the ditch in the back of the plant." (Later note added, "and burned".)

21. <u>Letter to Robert Webster from Erie County Department of Health, 1974</u>

"Please inform our office of the quantity of the following items that were hauled away from your plant in 1973."

2. The spent chlorothene used in the degreasing tank"

INTERVIEWS: Solvents/Paints

1. Clark Ralph, Maintenance Supervisor at Akron site 1956-1975.

Letter 9/12/91 - Paraphrase

No knowledge of disposal method of paint and paint thinner. Liquid degreasing solvents were "not used in my time. Combustibles were burned along the western property line to the northwest of the former railroad spur.

Letter 1**0/1**1/91

"To the best of my knowledge, the solvents and cleaners were taken out by truck by collectors of these materials."

"We did burn a lot of flammables that were not safe to put in the incinerator, up on the dump site."

2. Robert Webster, Maintenance Supervisor, 1969-1989

Phone Interviews - Paraphrase

8/15/91

Also, prior to my time, garbage was taken out back and thinner poured on it and lit.

No solvents in drums or otherwise were dumped in my time. Most solvents were consumed in the process, flashed off, etc.

8/20/91

I do not ever remember anyone putting a drum of solvent/thinner in the site.

They used to have a dump truck to collect the trash and dump it on site. Maintenance people would then pour solvents/thinner over it and light it.

3. Gene Lawrie, Plant Manager, 1976-1978 and employee in the late 1960s

Phone Interview - Paraphrase

Solvents and thinner were burned on trash or rags. I would not believe there are any solvents or thinner in drums. I saw the trash burned around 1969. It was burned in a ditch at the rise of ground as you approach the refuse site. The refuse site was always elevated - probably from dirt from original plant excavation.

4. Ken Bartha, employee involved with hazardous waste disposal 1974-1991

<u>Interview</u> - Paraphrase - 8/20/91

There are no drums of solvents or thinner out there. All were burned according to information from Bob Webster.

SUMMARY: Coolant/Cutting Fluids/Cutting Oils

The disposal of coolants, cutting fluids, and cutting oils at the refuse site is referenced in various EPA/NYSDEC reports from 1978 through 1991. The source of information includes both company responses to environmental questionnaires, as well as interviews with former employee, Ken Bartha (retired). Recently conducted interviews of other former employees directly involved with waste disposal indicate that it is likely that water soluble coolants were disposed of on the ground near the former railroad spur within the refuse site. There is no evidence to indicate that any drums of coolant were placed in the landfill. Clark Ralph, an eyewitness and former employee, indicates that coolant was disposed of by dumping on the ground.

The disposal of cutting oils is somewhat unclear because conflicting information indicates that cutting oils were burned along with trash at the site, while eyewitness interviews indicate that waste oil was taken off site since 1956. It seems most likely that the routine disposal method for cutting oils was removal off site by a used oil hauler. However, oil-containing filters and other refuse were burned with the trash. There is no evidence to indicate that drums of cutting oil were put into the landfill.

REFERENCES: Coolants/Cutting Fluids/Cutting Oils

1. Phase II Investigation, Executive Summary, Phase I-1, 1991 (NYSDEC)

"During the period 1956 to 1975, Strippit disposed of 20,000 gallons per year of water soluble coolants."

2. Phase II Workplan, Introduction, Page 1, 1990 (NYSDEC)

"Houdaille disposed of approximately 20,000 gallons/year of biodegradable water based coolant,..."

3. Site Inspection Report, 1989, (NUS)

"From 1956 to 1979, approximately 20,000 gallons/year of cutting fluids, coolants...were disposed of in a 2-acre landfill immediately behind the plant."

4. Interview of Ken Bartha, 1987, (Steele, ES)

"Houdaille used the site for waste disposal of...cutting oils, coolants,..."

5. Phase I Investigation, Executive Summary, Page I-1, 1986 (NYSDEC)

"Starting in 1956, Houdaille disposed of approximately 20,000 gallons/year of biodegradable, water-based coolants...in a 2-acre area on site."

6. Interview Ken Bartha, 1985, (Steele, ES)

"Approximately 20,000 gallons of water soluble, biodegradable coolant was disposed of via the on-site disposal fill area. The practice occurred from 1956 to 1968."

"Cutting oils were generated on-site (ten to fifteen 55-gallon drums/year) which were recycled and collected by Booth Oil Company. This practice has been in place since Strippit began operations in 1956."

7. Potential Hazardous Waste Site, 1985, (EPA)

"Solvents and cutting oils were poured onto plant refuse and burned. The resulting ash is disposed of on site."

"Solvents and oil-based oils were poured onto plant-generated refuse and burned."

"Ash from the burning of solvents and cutting oils, coolants...were disposed of directly on the ground."

- 8. NYSDEC Inactive Hazardous Waste Disposal Site Report, 1985, (NYSDEC)
- "...used this site to dispose cutting oil,..."
- 9. NYSDEC Inactive Hazardous Waste Disposal Site Report, 1983, (NYSDEC)

"Hazardous Waste Disposed - Suspected"

Type

Quantity

Cutting oils, solvents, paints 20,000 gallons/year

Note by Ken Bartha indicates "burned".

10. NYSDEC Site Profile Report, 1982, (NYSDEC)

"The following has been deposited: cutting oils, solvents, paint (20,000 gallons/year);..."

11. <u>Interagency Task Force on Hazardous Waste Hearing Officer's Report, 1979</u>

"Coolants (20,000 gallons/year) were also disposed of at this site until 1975."

"..., cutting oil compounds...were also disposed of on premises until 1975."

12. Interagency Task Force on Hazardous Waste, 1978

"On-Site Waste Treatment (1930-1975)

Coolant dumped on refuse disposal site 1956-1975

13. Ken Bartha letter to G. Lawrie, 1978

"No documented information available on how the cutting fluids were disposed of prior to 1975. The only information I have received is that prior to 1975, cutting fluids, paint thinner, etc. were dumped in the ditch in the back of the plant." (Later note added, "and burned".)

"Cutting Fluids

Type	Pollutant	Quantity
Norton 203 Grinding Sol (Water Soluble)	Nitrite Amine	20,000 gal/yr Total
Trimsol (Water Soluble)	Phenol	
Mobile Met 715	Straight oil	1,000 gal/yr Total
Texaco 240	Straight oil	
Texaco 499 EDM Fluid	Straight oil	
Honing Oil	Straight oil	No waste

INTERVIEWS: Coolants/Cutting Fluids/Cutting Oils

1. Clark Ralph, Maintenance Supervisor at Akron Site 1956-1975

<u>Letter 9/12/91</u> - Paraphrase

"About 'ELOX' Machines...We built 'filters' to contain bags of burnt fullers earth which, when changed, were taken to 'disposal' site and burned."

"Grinding sludge was sold, to the best of my knowledge. We used 'Cimcool' from Cincinnati Milling Machine Co. for most of our work on grinders and turrets, and automatics such as Cone, Brown and Sharpe and W & S Turrets and Misc."

Coolants and some grinding sludge was dumped on the ground at locations to the northwest of the former railroad spur within the disposal ${f site}$.

2. Robert Webster, Maintenance Supervisor, 1969-1989

Phone Interview - Paraphrase, 8/15/91

"There was no waste oil disposed of...paid to take away."

APPENDIX C TEST PIT AND MONITORING WELL LOGS

Pr Pr	oject oject	: <u>Strij</u> Location:	pit, I. Akm	nc. on, New	Date: For	DREW J. KKSFRIK 6. 1,1993 12-16593
		ing Fi r m: - r: <u>Wa</u>		, ,	Equipment: Bandle Model No.: 500 Weather: 500	B 1400B
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
		Easy	0.0		Black TOPSOIL W/ROOTS (miss) 0.5	PID = Photoion-
- 1 - Z			0.0		Red-brown SILT, some fine to course Sand (moist)	izationDetector Reading(in HNu — units, parts per million,ppm) —
- 3 - 4 - 5			0.0			FSW = Free Stand- ing Water Level upon completion of excavation
- 6 - 7			0.0		Tan-brown SILT, some fine to course Sand, little - some Gravel (moist) 7.2	
-8		Y			TEST PIT COMPLETE	Percheel water -
						No FSW
						_
						Fill/SoilDescription via Visual-Manual identification methods.

Pr	oject	NGINEER ::Strip	oit I	Test Pit No.: Geologist: And Date: Fe Project No.: 9c	M. J. Kikserta	
		ing Fi r m: - r: <u>Walf</u>			Co Toc. Equipment: B Model No.: TC Weather: Clo	B 1400B
DEPTH	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
_ /		Easy	0.0		Black TORSOIL with Roots (moist) 1.3'	PID = Photoion- izationDetector Reading (in HNu —
- Z - 3			0.0		Rad-brown SILT and fine to coarse Sand, some fine to coarse Gravel (muist)	units, parts per million,ppm) —
- 4 -5			o. o		Brighes wet @ 31±	FSW = Free Stand- ing Water Level uponcompletion of excavation
- 6			0.0		Ten-brown Sict and Gravel, Some Sand (maist) 6.6	
- <i>1</i>					TEST PIT COMPLETE	Fill/SollDescription via Visual-Manual identification methods.

D	AY E	NGINEER	ING,	P.C.	Test Pit No.:	Test Pit No.: TP-3 Geologist: Andrew J. Kucsenit		
Pr Pr	rojeci rojeci	t: <u>Strip</u> l Loca t ion:	nit I Akn	inc ·	Date: <u>Fe</u> Project No.: 93			
Ex Op	cavat	ling Fi r m: - or: <u>Wald</u>	Butte by Gn	k Dilling einer	Model No.: School Weather: C/oc	1400B		
рертн	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS		
_/		Easy	0.0		(Moist) 1.0	PID = Photofon- izationDetector Reading(in HNu —		
-2			ర. ఆ		Red-brown SILT and fine to course Sand, little fine to course Gravel (McIst)	units, parts per militon,ppm)		
-3 -4 _5			0.0			FSW = Free Stand- ing Water Level upon completion of excavation.		
−¢ -7		<u> </u>	0.0		6.91			
						Fill/SoilDescription via Visual-Manual identification methods.		

		NGINEER Strip Location:			Test Pit No.: Geologist: Date: Project No.: 32	rew Ti Kuczonk
		ing Fi r m: r: <u> </u>			Equipment: Be Model No.: January Color Weather: Clo	B 1900B
DEPTH	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
		Easy	0.0		Black TOPSOIL, w/ Roots (moist-wet) 1.2' Red-brown and tan fine to	PID = Photoion- izationDetector Reading (in HNu — units, parts per
- 2			0. 0		medium SAND and Silt, Some fine to course Gravel	million,ppm)
-4 -5			0.0		(muist-wet)	FSW = Free Stand- ing Water Level upon completion of excavation.
-6 -7			0.0		7,0	
_					TEST PIT COMPLETE @ 7.01	No ESN Perched water @ 3'-5'
_						
_						
						Fill/SoilDescription via Visual-Manual identification methods

	-	NGINEER				Test Pit No. Geologist: Date: Project No.:	And	TP-5 rew J. Kucserik - 1, 1993 - 16515
Ex Op	cavat erato	ling Fi r m: or: <u>Wa</u>	B Ha	la Drilling Gnei ner	Co Inc.	Equipment: Model No.: Weather: _	Jec.	9 1400B
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA S E	₽ŧD	PROFILE	1	FILL / SOIL ESCRIPTION		NOTES / REMARKS
- 1		Easy	0.0		(moist -w	et) hinc to course	1.0°	PID = Photoion- izationDetector Reading (in HNu —
- 2			0.0		and Silt) some Gravel	(Maist	units, ports per million,ppm) —
-3 -4 -5			g. O				5: o'	FSW = Free Stand- ing Water Level upon completion of excavation.
- 6		Medium	0.0			n fine to coarse		
- 7			0.0				7.7°	
- (8						PIT COMPLETE 7,7'		No Esw - Perched water _ © 3.5' E
_								
_								Fill/SoilDescription via Visual-Manual identification methods.

İ	-	NGINEER Strip Location:	Doto:	Feb. 1, 1993		
Ex Op	cavat erato	ing Firm: -	Buth alter	Greiner	. Co. Inc. Equipment: Ba Model No.: 70. Weather: 0/0	3 1400B
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
- 1		Easy	0.0		Red-brown Claypy SILT and fine - coarse Sand, some fine - coarse Gravel (moist, File)	PID = Photoion- izationDetector Reading (in HNu - units, parts per million,ppm)
-2 -3			0.0		Block TOPSOIL (moist)	
-4 -5			Ó. O		Sand, some fine - coanse Gravel (moist)	FSW = Free Stand- ing Water Level _ upon completion of excavation.
-6 -7			o. 0		6.9'	_
_					TEST PIT COMPLETE	Perched water -
_						@ 4.21 — No FSW —
_						
_						
-						Fill/SoilDescription via Visual-Manual identification methods.

`

	Project: Strippit Tos: Project Location: Attrony NY. Test Pit No.: Geologist: And Date: Fe Project No.: 92-								
Excav Opera	Excavating Firm: Bollato Drilling Co. Jinc. Equipment: Bout Operator: Weather Grainer Weather: Clave								
DEPTH SAMPLE	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS				
- 1 - 2 - 3 - 4 - 7 - 8 	Easy Medium	0.0000000000000000000000000000000000000			Reading (in HNu — units, parts per million,ppm)				

Pro	ject	NGINEER Strip Location:	sit To	·c ·	Test Pit No.:	lew J. Kucsenk
Exc Ope	ayat rato	ing Fi r m: - r: <u>Wali</u>	Buffala Var Gra	Drilling einer	Co., Troc. Equipment: But Model No.: Too Weather: Cloud	B 1400B
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 2 3 4 5 6 7 -7		Easy	0. 0 0. 0 0. 0 0. 0 0. 0			

		NGINEER Strip			Test Pit No.: Geologist: And Date: Fo	res J. Kuczonik
Ex Op	cavat erato	ing Fi r m: - or: <u>W./</u>	Buffer Go	the Drilling	Co. Inc. Equipment: But Model No.: Scan Weather: Clou	1400B chy 5t F
DEPTH	SAMPLE NUMBER	EXCAVATION EASE	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
- 1 - 2 - 3		Easy	0.0		Block FORSOIL (moist) Ton-brown, SILT and fine - medium Sand (moist)	PID = Photoion- izationDetector Reading(in HNu — units, parts per million,ppm)
- 4 - 5 - 6			0 0 0			FSW = Free Stand- ing Water Level upon completion of excavation
- 7					TEST PIT COMPLETE	Fill/SollDescription via Visual-Manual identification methods.

	AY E	TP-10 ew J. Kucavit 16.1, 1993 -16575				
		ing Fi r m: - r: <u>Walk</u>			Equipment: <u>Barrelle Barrelle </u>	3 1400B
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA S E	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
- <i>1</i>		Easy	0.0		Blow TOPSOIL w/Roots (moist) Red-brown SILT and fine - coarse Sand, lithe Gravel (moist)	PID = Photofon- izationDetector Reading (In HNu — units, parts per million,ppm)
-3 -4 -5			o. O			FSW = Free Stand- ing Water Level upon completion of excavation
-6 -7			0.0		Tan-brown SILT and Fine - coarse Sound (moist-wet) 7.31	
-8					TEST PIT COMPLETE	Perched with Sit Fill/SoilDescription via Visual-Manual identification methods.

		Syring Location:	J. Kusurik j. Kusurik j. 2. 1993 2-16595			
Ex Op	cavat erato	ing Firm: - r: <u>w</u>	BDC.	ñer-	Model No.:	13 1400B 2014 10°F
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PiD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
_ /		EASY	0.0		Rod-brown Clayor SILT and fine - coarse Gravel (mist, Fill) 1.2 Black TOPSOIL of Roirs (mist)	Reading (in HNu — units, parts per
-2 -3			Ø. V		Tan- brown SAND and Sitt (most -wet)	million,ppm)
-4 -5			o . O		5.0	FSW = Free Stand- ing Water Level upon completion of excavation.
-6.			0.0		Red-brown SILT and Fine - course. Gravel, some fine - course Soud (maist) 62 TEST PIT COMPLETE	
					C 6.21	Perched water © 3.4/± Fill/SoilDescription via Visual-Manual identification methods.

Brown - black SILT and Sand IzationDate Reading (In units, parts amber, guart bettle - no labelling million, ppr (moist, FILL) Black Tarsoic -/ Rents ing Water Le upon comple excavation. Black Tarsoic -/ Rents (moist - red in Sand) Tan-brown Silt and fine - red in excavation. Sond, some Gravel (noist - et) 2ed-brown Silt and fine - rooms Gravel, some Sound (maist) 6.5 TEST Pit COMPRETE NO FSW		•	NGINEER Stripp Location:	-		Test Pit No.:	J. Kusseril.
Easy Cosy Brown - black SILT and Sand izationDate with Metal Turnings / Fines and Casting Wood Pcs., (1) empty amber, govern bottle - no labelling million, ppr (moist, FILL) Black Tagsoic of People in gwater Leaves in gwater Leaves in gwater Leaves (moist) Commission Silt and fine - medicing sexcavation. Sand, Same Gravel (noist - wet) Some Sand (moist) 6.5 TEST PIT (OMPLETE NO FSW)	Ext Op	cavat erato	ing Fi r m: - r: <u> </u>	BD0 Grein	CI er	Model No.: Je	B 1900 B
Custings, Wood Pass, (1) empty units, parts amber, goart bottle -no labelling million, ppr (moist, FILL) Black Tarsoic approxis (moist) Good Some Gravel (noist wet) Sond, Some Gravel (noist wet) Sond, Some Sand (noist) Edd-trown Sixt and fine-rooms Sond Some Sand (noist) Test Pit (OMRETE No FSW) Perched as	ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	ì	NOTES / REMARKS
	-1 -2 -3 -4 -5	S, NI		0.0		Brown - black SILT and Sand with Metal Turnings / Fines and Clistings, Wood Pas., (1) empty amber, quint bottle - no labelling (moist, I-ILL) Black Tarsoic s/Rosts (moist) Tan-brown SILT and fine-medical Sand, Some Gravel (noist-wet) 5.7 Red-brown SILT and fine-room Gravel, Some Sand (maist) 6.5 TEST PIT (OMALETE	FSW = Free Stand- ing Water Level upon completion of excavation. No FSW Perched water — 51 ± Fill/SoilDescription via Visual-Manual

D	AY E	NGINEER	RING,	P.C.	Test Pit No.:	TP-13 J. Kuczeńk		
Pi Pi	rojec roject	t: <i>Strip</i> t Location:	Akra	o, a.r.	Date:	Date: <u>F25.2,1993</u> Project No.: <u>92-76525</u>		
Ex Op	cayat erato	ling Fi r m: or: <u> </u>	BD. Grein	CI Der	Equipment: 2 Model No.: 30 Weather: 2000	B 1400B		
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA S E	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS		
-1 -2			0.0		Brown fine - coorse GRAVEL and fine - coops Sand, little Silt, trace roots (moist, File)	PID = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm)		
-3			6. O			 FSW = Free Stand-		
-4			0.0		Black TOPSoil (moist)	ing Water Level upon completion of excavation		
-6 -7			0.0	-	Jon- brown SILT, some Sand, little Gravel (moist)			
-8 - -					TEST PIT COMPLETE	No ESW _ Porched water		
						Fill/SoilDescription via Visual-Manual identification methods		

Pr Pr Ex	oject oject cavat	ing Firm:	ippit, Aks BDC	Inc.	Test Pit No.: Geologist: Date: Project No.: Equipment: Model No.: Sun.	J. Kusserik b. 2, 1493 2-16575 cillue, B 1400B
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 -2 -3 -4		Medium	0.0		Brown fine - coarse GRAVEL and fine - coarse Sand, little Silt, Occasional Concrete Fragments, Sheet Metal Piecses, Wood Fragments (moist, FILL)	PID = Photolon- izationDetector Reading (in HNu units, parts per million,ppm) FSW = Free Stand- ing WaterLevel upon completion of excavation.
-6 -7 -9 -		Easy	0.0		Brown SAND and Gravely Some Silt, some Wood Pieses (wet, Fill) 8:31 TEST PIT TERMINATED C 8:31 DUE TO FILL AND SERCHED WATER CONDITIONS. THE EXCAUMICAN COLLAPSED.	Perchect water 6 6 ± Fill/SoilDescription via Visual-Manual identification methods.

		NGINEER Strip Location:			Test Pit No.: Geologist: Date: Project No.:	J. Kugserik
Ex Op	cavat erato	ing Firm: - r: <u>W</u> .	BDC Greiner	Ī.	Equipment: <u>Ba</u> Model No.: <u>JCB</u> Weather: <u>St.20</u>	1903
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
- 1 - 2		Easy - Medicin	0.0		Black-brown SILT and Gravel, Some fine - coance Sand, Wood Pieces, Sheet Helal (noist, FILL)	PID = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm)
-3 -4 -5 -6			0.4			FSW = Free Stand- ing Water Level upon completion of excavation
-7 -8 -9		Medium	0.5		Becomes wet 8,21 Black CINDERS / SLAG (moist-wet)	Oily odor @81
					TEST PIT TERMINATED & 8.7' DUE TO FILL AND PERCHED WHTER CONDITIONS, THE EXCAUATION COLLAPSED.	No FSW Perchal water — G 7.51
						Fill/SoliDescription via Visual-Manual identification methods.

		NGINEER Strip			Test Pit No.: Geologist: Date: Project No.: 22	J. Kucserit 56. 2,1993
		ing Fi r m: - or: <u>/v</u> .			Equipment: <u>B</u> Model No.: <u>Jo</u> Weather: <u>Supp</u>	B-1400B
рертн	SAMPLE NUMBER	EXCAV a ti on EA s e	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
		Medium	0.0 0.0 0.0 0.0 0.0		Brann Clayey Silt and tine - course Gravel, some Sand, occasional Metal Fragments (Moist, File) Gray Sing and Crusted Stone intermined with Sand and Gravel (Moist, File) Black Timpers (Poss, IRR Ties) (Moist, File) Black Topsone (Moist) The brown Sile and Kine - Medium Sand (Moist) 7,81 TEST PIT COMPLETE & 9,81	PID = Photoion- izationDetector Reading (in HNu units, parts per million,ppm) FSW = Free Stand- ing Water Level upon completion of excavation. Moth billodor © 7.1'-7.81 Fill/SoilDescription via Visual-Manual identification methods.

Pr Pr	oject oject	NGINEER Stripp Location:	it In Akr	د . می ۱۷۰۲۰	Geologist: <u>A.</u> Date: Fell	Project No.: 92-76575		
-		ing Fi r m: r: <u>/v</u>			Model No.: Scan	3 140013		
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS		
-1 -3 -4 -5 -7 8 -9 -1		Ensy.	0.0		Brown SILT and Ric - coorse Sond; some Gravel; Concrete Fragmonts / Rubble [Five pos.: 2@ 2'x2'x0.5' 1@ 2'x4'x2' 2@ 2'x1'x0,5' (moist, File) (moist, File) (steel cuble: 1"dia. x 30't) 7.9' Eray Silt, some Ric - coarse Sond; trace Poits (moist-wet) 9.8' TEST PIT COMPLETE	PID = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm) FSW = Free Stand- ing Water Level upon completion of excavation.		
					© 7.81	Fill/SoilDescription via Visual-Manual identification methods.		

		: <u>Strippi</u> : Location:		-	Test Pit No.:			
		ing Fi r m: - ir: <u>w.c</u>			Equipment: <u>S</u> Model No.: <u>FC</u> Weather: <u>Sunny</u>	B 1400B		
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS		
- <i>1</i>		Medium	2.0		Brown Clayay SILT and fine - coanse Gravel, some fine - coarse Sand, Circler Blocks, Concrete Proces (moist, Fill)	PiD = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm)		
-3 -4 -5		Easy	ο. ο ο. ο		Brown fine - course GRAVEL and Sitt , some fine - course Sand	F5W = Free Stand- ing Water Level upon completion of excavation		
-6 -7 -8			ن. ٥		(monst -wet)			
-9					EST PIT COMPLETE	Perched water Sit Fill/SoilDescription via Visual-Manual identification methods.		

		NGINEER		-	Test Pit No.: Geologist: Date: Project No.:	T. Kucserik 2.2 , 1993
Ex Op	cavat erato	ing Fi r m: - r: <u>W</u> .	BDC. Grein	er er	Equipment: <u>Ba</u> Model No.: <u>Jan</u> Weather: <u>Som</u>	3 140013
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
- 2		EASY	,ð. O		Brown Clayey SILT and Crushed Store (maist, Fill)	PID = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm) —
-3 -4 -5 -6 -7 8		MEDIUM	δ· O δ· O δ· O		Ton- brown SILT, some Sond, Steel Brans / Angle Iran Fes. (Find 45! Brown - block TOPSOIL (moist, Possible Fill) 5.4! Brown SILT, some fine-coarse Sand, little Gravel, trace Clay (moist)	excavation.
- 9		<u></u>			9.31	
					TEST PIT TERMINATED (4 9.3 DUE TO BAKKHOE LIMITATIONS	Perchal witer Perchal witer Fill/SoilDescription via Visual-Manual identification methods.

		NGINEER Stripp Location:	ŕ	-	Geologist: A.	5. 2,1993
		ing Fi r m: - or: <u>W</u> .			Equipment: Sunny Weather: Sunny	B 1400B
DEPTH	SAMPLE NUMBER	EXCAV A TI ON EA SE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
		Medium	O. O		Brown Clayay SILT and Fine - coarse Gravel, some Cinder Blocks, Concrete Tragments, Sheet Metal Pieces	PiD = Photoion- izationDetector Reading(in HNu — units, parts per million,ppm)
3			0.0		(moist, Fill) 3.7 Tan-brown Silt and fine-	FSW = Free Stand-
■ -4		Easy	0.0		coarse Sand (most) Sil' Rod- brown SILT and Kie -	ing Water Level upon completion of excavation
7			0.0		coarse Gravel, some fine-	
9		<u> </u>	0.0		TEST PIT COMPLETE	No ESW
					C 8.6'	Perhad water _
						— Fill/SoilDescription
						via Visual-Manualidentification methods.

Project Project	ENGINEER Strippi t Location:	t Inc	on, N.X.	Test Pit No.: Geologist: Date: Project No.:	5. 4, 1993 2-16575
	iting Fi r m: - or: <u>W</u>			Equipment: <u>B</u> Model No.: ブに 角 Weather: <u>S</u>	1400B
DEPTH SAMPLE	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 -2 -3	Easy	7.0 2.0		Brun - block CINDERES and Sand of Gravel of Metal Prices (MCIST, FILL) 1.7 Black TOPSOIL (moist) w/ Roots Ton-gray SILT and fine-coarse	militon,ppm) -
-4 -5		5-12		Ton-gray Silt and fine-coarse Sand, some Gravel (moist-wet) 4.9 TEST PIT COMPLETE (2.9)	Unoncompletion of

		Stripp Location:			Geologist:	Geologist: A.J. Kucserik			
Ext Op	cavat erato	ing Fi r m: - r: <u>W</u>	BOG Grei	ner	Equipment: <u>Ba</u> Model No.: <u>JC</u> Weather: <u>Sunn</u>	B 1400B			
ОЕРТН	SAMPLE NUMBER	EXCAV A TI ON EA S E	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS			
1 2 3 4 5 6 7		Medium	0. v			PID = Photoion- izationDetector Reading(in HNu units, parts per million,ppm) FSW = Free Stand- ing Water Level upon completion of excavation. No FSW Arched water C 45' t			

1		t: Stripp.			Test Pit No.: Geologist: Date: Project No.:	. J. Kucserik
Ex Op	cayat erato	ting F ir m: - pr: <u>W</u>	BD. Grein	<u> </u>	Equipment: 2 Model No.: 50 Weather: 50	B 1900B
рертн	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 -2		Easy	a. O		Brown SILT, some Kine - course Sand, some Gravel, some Clay, trace would, Occasional Metallic (astings (maisty File)	PID = Photoion- izationDetector Reading (in HNu - units, parts per million,ppm)
-3 -4 -5 -6			δ. O δ. O		Brown - tan SILT and fine- coarse Sarely little Gravel (moist)	upon completion of excavation.
					TEST PIT COMPLETE © 6.61	No FSW -

		NGINEER			Test Pit No.:	J. Kersprik
Pr Pr	oject oject	: <u>Strigg</u> Location:	Alen	on, N.Y.	Date: Project No.:	72-16525
Ex Op	cavat erato	ing F ir m; - r: <u>W</u> .	BUCI Greine	· · · · · · · · · · · · · · · · · · ·	Equipment: <u>Be</u> Model No.: <u>Fr</u> Weather: <u>Sur</u>	B-14.00B
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 -2		Easy	0.0		Brown Silt and fine - coanse Grovely little Sand, trace wood, Occasional Circler Blocks (moist, File)	PID = Photoion- izationDetector Reading(in HNu — units, parts per million,ppm)
-3 -4 -5			O.O		Brown Silt, some Ric-coarse Sand (moist)	FSW = Free Stand- ing Water Level upon completion of excavation
- 7 					TEST PIT COMPLETE	Encountered and

D	4Y E	NGINEER	ING,	P.C.	Test Pit No.:	T. Kucsecik
Pr Pr	oject oject	: <u>Stripp</u> Location:	oit, In	oc.	D-4 (1)	71993
Ex Op	cavat erato	ing Fi r m: - r: <i>W</i> =	BDCI Grein		Equipment: Bounded No.: St. Weather: St. M.	B 1400B
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
_ /		Easy	0.0		Brown & block CINDERS, Sound, Gravel, Motal Pes. (moist, FILL)	PID = Photoion- izationDetector Reading (in HNu —
-2					Tan-brown Silt and fine Sand, occasional Clay partings (moist-wet)	units, parts per million,ppm) —
-3 -4 -5			5-12		Solvent - edor noted @ 6 t	FSW = Free Stand- ing Water Level upon completion of excavation
ا ي		*	· · · · · · · · · · · · · · · · · · ·		G.31	
-7 -					TEST PIT COMPLETE @ 6.31	Perched water _ ### A' ± No F.S.W
_						_
-					1	<u></u>
<u> </u>						Fill/SoilDescription via Visual-Manual identification methods.

		NGINEER Stripp Location:			Test Pit No.: Geologist: Date: Project No.:	T. Kurserik
		ing Firm: - or: <u>w</u> .e			Equipment: <u>Ba</u> Model No.: <u>JCK</u> Weather: <u>Sum</u>	3 1400 13
рертн	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
/		Easy	0.0		Black TOPSOIL (moist)	PID = Photoion- izationDetector Reading (In HNu —
- 2 - 3			0.0		Sand, occasional Clay partings (moist)	units, parts per million,ppm)
-4 -5			8. U			FSW = Free Stand- ing Water Level upon completion of excavation.
-6 -7			U . U			
					TEST PIT COMPLETE © 7.0'	No F.S.W. Fill/SofiDescription via Visual-Manual identification methods.

				ING,	P.C.	Geologist:	b. 4, 1493
				BDC S. Gre		Equipment: Bound Model No.: 50.	B IDUE
ОЕРТН	SAMPLE NUMBER	l	VATION ASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1 -2 -3 -4 -5 -7 -8		Med E Q	s y	0. 0 0. 0 0. 0		Brown, black SAND, Cindens, Hetal Pcs. (deteriorated 55-gal. drums), Cinder Blocks, word (moist, FILL) 2.6 Black TORSOIL (moist) 3.9 Ton- brown, SILT and Ame - coarse Sand, little Gravel (moist -wet) 7.1 TEST PIT COMPLETE © 7.11	_
-							identification methods.

Pr Pr Ex	oject oject cavat	Strip Location: ing Firm:	BDCI	on, Ald	Equipment: <u>F</u> Model No.: <u>J</u>	T. Kucserik 6 5,1993 72-16575 Backhoe
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	Weather: School	NOTES / REMARKS
-1 2 3 -4 -5 6		EASY	0.0 1.5 6.0 1.0 5-10.0 2.0		Black - brown Civisers, some Sand, Sheet Melal Pas. (moist, file) Tan - brown Sirt and Sand (moist, File) Block Topsoil (moist) Tan - brown Sirt, little Sand, occasional Sand lenses (2) 4-5' TEST PIT COMPLETE (3.0)	Reading (in HNu - units, parts per million,ppm)

		Stripp Location:			Test Pit No.: Geologist: Date: Project No.:	J. Kucsenk
Ex Op	cavat erato	ing Fi rm : or: <u>W</u>	ВО • Gnэ r	CI ier-	Equipment: Bandel No.: 50.	3 1400 B
DEPTH	SAMPLE NUMBER	EXCAV A TION EA SE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
/		EASY	0.0		Black - brown CINDERS / SCAG, (muist, FILL) Black TOPSOIL (muist)	Reading (in nive -
- 2			0. 0		Ton- brown SILT, occ. Sand	, units, parts per million,ppm) —
-3			0.0		and Clay lenses (maist)	FSW = Free Stand- ing Water Level _ upon completion of excavation
-5 -		·			TEST PIT COMPLETE	No 15, 10 -
_					•	_
-						Fill/SoilDescription via Visual-Manual
-						identification methods.

		NGINEE		P.C.	Geologist: A.S	Test Pit No.: TP-30 Geologist: A.J. Kuwerik Date: Feb-5; 1993 Project No.: 92-16575			
		ing Firm: r:U			Equipment: <u>Ba</u> Model No.: <u>.7C</u> Weather: Sun	13 140013			
ОЕРТН	SAMPLE NUMBER	EXCAVATION EASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS			
- <i>l</i> - 2 - 3		MEDIUM	0.0		Brown & black SAND and Cinders, Cement Brooks, Metal Pos. / Streeting, wood (moist, FILL)	PID = Photoion- izationDetector Reading (in HNu — units, parts per million,ppm)			
- <i>4</i> -5		EASY	0.0		Tan-brown Sixt and Sand (maist-wet) 5.01	uponcompletionof excavation.			
- (p)					TEST PIT COMPLETE © 5.51	Porched withor - & 4.8' NO F.S.W. Fill/SoilDescription via Visual-Manual identification methods.			

		NGINEE : Stry Location:			Test Pit No.: Geologist: Date: Project No.:	b. 5, 1993
Ex-	cavat erato	ing Firm: r:	BDC. W. Gr	einer	Equipment: 3 Model No.: 50 Weather: 500	B 1400B
DEPTH	SAMPLE NUMBER	EXCAVATION EASE	PłD	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS
-1		MEDIUM EASY	0.0		Brown SAND and Sitt, Metal Pcs. I fragments, Fencing, Barbod Wire (moist still)	PID = Photoion- izationDetector Reading (in HNu - units, parts per million,ppm)
-3 -4 -5			0.0		Brown - Block TOPSOIL (moist)	- T
-6 -7			g. O		Tan-brown Silt, little Sand, acc. Clay & silt soams (moist -wet) 7.9	_
-8					TEST PIT COMPLETE	Perchad unter
						Fill/SoilDescription via Visual-Manual _ identification methods.

	Pr Pr	oject	l: Loca	<i>Sτrip</i> tion:	ING,	Tron, NY.	Geologist: <u>A.</u> Date: <u>Feb</u> Project No.: 9	Test Pit No.: TP-32 Geologist: A.J. Kurserik Date: Feli 5, 1993 Project No.: 92-16575 Equipment: Backline			
	Op	erato)r: _	-	W. Gr	einer	Model No.: ೨೦ Weather: ೨೪	19:00 B 104 2595			
•	DEPTH	SAMPLE NUMBER		ATION ASE	PID	PROFILE	FILL / SOIL DESCRIPTION	NOTES / REMARKS			
	- (мері	<i></i>	0,5		Brown - black Cinvers / SLAG; Sand, Metal Pcs. (drun lid) Custings (meist, Fill)	P1D = Photoion- izationDetector Reading (in HNu — units, parts per			
	-2		EAS	24	/, o		Tan-bon, SiLT, some Sand (moist, Fill) 2.8	million,ppm)			
	-3 -4				2-3 /-2		Black Silt-like Residue 3.3 Tan-brown Silt, some Sand (moist) 5.1	FSW = Free Stand- ing Water Level upon completion of			
	_6				0.2		Red-brown SILT and Sand (moist)				
	-7 - -						TEST PIT COMPLETE @ 6.81	No F.S.ω			
	_										
	-							Fill/SoilDescription via Visual-Manual identification methods.			

EASY 6.0 Blue Torsnie (meist) Tun-orn. Silt some - little Soud (moist) Compared to the sound seading (in HN units, parts per million, ppm) Rod-brown Clayry Siet, little Sound Compared to the State ing Water Level TEST PIT COMPLETE FSW = Free Stating Water Level		-	NGINEER			Geologist: <u>A</u>	Test Pit No.: 7P-33 Geologist: A. J. Kucserik Date: Feb. 5, 1993 Project No.: 92-16575			
Blue Toosoic (meist) Ond FID = Photoior izationDetection Tun-turn. Silt some - little Sound (meist) Ond Tun-turn. Silt some - little Sound (meist) PID = Photoior izationDetection Reading (in HN units, parts per million, ppm) Red - brown Clayey Silt, little Sound Compilete G 3.31 FSW = Free Staing Water Level upon completion excavation. No F.S. W. No Perched				Model No.:	B1400 B					
Tun-brn. Silt some-little Sand Reading (in HN units, parts per million, ppm) Rod-brown Clayer Silt, little Sand (maist) TEST PIT (OMPLETE ing Water Level upon completion excavation. No F.S. W. No Perched	DEРТН	SAMPLE NUMBER	B	PID	PROFILE	DESCRIPTION	NOTES / REMARKS			
	3		EASY	0.0		Tun-brn. Silt , some - little Sound (moist) 2.1 Rod-brown (layor Silt, little Sound (moist) 3,3: TEST PIT COMPLETE	Reading (in HNu units, parts per million, ppm) FSW = Free Standing Water Level upon completion of excavation. No F.S.W. No Perched water			

DA Pro	Y E oject	NVII	RONM Strip	ING, 1ENTA Per	Lnc.	INC			10: <u>6W-5</u> ras J. Kucserik 5, 3,4,5,1993
Dri	iller:		arry	Schree Rimbe	der	G. Co. IVC	Drill Rig Type: <u>CME - 55</u> Drilling Method: <u>IHSA</u> Weather: <u>Sunny</u> 35 - 40 F		
ОЕРТН	SAMPLE NUMBER	•	COUNTS INCHES	PłD	I	WELL TAILS	T .	BEDROCK RIPTION	NOTES / REMARKS
2 3 4	1	4	14	0.0	/BENTOW'RE GROWTH	\$ E.O. PIC WELL	Brewn Cloyey Fine - coarse Gravel (moist Brewn Sict) Coarse Gravel	Sand little	PID = Photoion- izationDetector Reading (in HNu units, parts per million,ppm) FSW = Free Stand- ing Water Level
5 . 7 . 8	2	3	7	0.0	CEMENT,	5,, 2	(moist)	8.5' <u>t</u>	
9 10 11 12-	3	<i>1</i> 6	29 27	0.0			Brown fine (wet)	SAND and Silt	
13	4	37 70	45	0.0				13.5't ill and fine - some Gravely moist)	Sofi/Bedrock — Description via Visual-Manual Identification methods and ASTM 1586D. —

D.A Pr	AY E oject	NVII	RONM		AL, INC.	Monitoring Wel Geologist: Date:	Project No.: Drill Rig Type: Drilling Method:			
Dr	illing iller: lper:					———— Drilling Method				
ОЕРТН	SAMPLE NUMBER	BLOW PER 6	COUNTS I N CHES	PID	WELL DETAILS	SOIL / BEDROCK DESCRIPTION	NOTES / REMARKS			
-17 -18							PID = Photoion- izationDetector Reading(in HNu - units, parts per million,ppm)			
-20 -21 -22 -23	5	37 35	31 33	<i>6</i> ∙0		Becomes gray-brown	FSW = Free Stand- ing Water Level _ -			
_24 _25 _26 _27 _28	6	25 41	37 45	0.0			-			
-29 -30 -31 -32 -	7	30 33	27 38	0.0			Soil/Bedrock — Description via Visual-Manual identification methods and ASTM 1586D. —			

D A	AY E ojec	ENVI	RONN		4L,	INC	Soil Boring No.: <u>Gw-5(cont)</u> Monitoring Well No.: <u>Gw-5(cont.)</u> Geologist: Date: <u>Feb. 4,1993</u> Project No.:				
■ Dr	iller:	:		Drilling Method: _	Type: Method:						
ОЕРТН	SAMPLE NUMBER	BLOW PER 6	COUNTS INCHES	PID		WELL TAILS	SOIL / BEDROCK DESCRIPTION	NOTES / REMARKS			
-33 -34 -35 -36 -37 -38 -39 -40 -41 -42 -43 -44 -45 -46 -41 -48	8	26 30 7 16	21 30 14 21 21 19	0.0			Gray - brown Clayey SILF and fine - coarse Sand (moist)	PID = Photofon- izationDetector Reading (in HNu units, parts per million,ppm) FSW = Free Stand- ing Water Level Soil/Bedrock Description via Visual-Manual identification methods and ASTM 1586D.			

Pr Pr Pr	AY E	t: t Loca	RONI ation:		AL,	INC	Monitoring Well Geologist: Date: Project No.: Drill Rig Tupe:	Project No.:		
■ Dr	iller						Drilling Method:			
ОЕРТН	SAMPLE NUMBER	BLOW PER 6	COUNTS INCHES	PIĐ		ELL AILS	SOIL / BEDROCK DESCRIPTION	NOTES / REMARKS		
-49 -50 -51 -52 -53 -54 -55 -56 -56 -57 -60 -61	12 3 4	10 15 21 45 11 19 12 15 21	14 15 52 68 12 24 15 15	6.0	54.8	1.1.1.1.1.1.	Sist Bombonite) 53.1' 53.5 Brown and gray Silt and fine Sand (wet) Sind Clay, some fine - coarse Sand (maist) Gray Silt and fine Sand (wet)			
-62 -63 -64	15	35 15 17	31 21 17 18	6. O		2"10,0	_&4.8 ¹	Soil/Bedrock — Description via Visual-Manual identification methods and ASTM 1586D. —		

D A	AY E	NGINEER NVIRONM t: Location:_	1ENT	AL, INC.	Monitoring Well M Geologist: Date: Fe	Date: Feb. 5, 1993			
Dr	iller] Firm:			Drilling Method: _				
ОЕРТН	SAMPLE NUMBER	BLOW COUNTS PER 6 INCHES	PID	WELL DETAILS	SOIL / BEDROCK DESCRIPTION	NOTES / REMARKS			
65 -66 -					BORING COMPLER & 66.01 AUGERED TO 66.01	PID = Photoion- izationDetector Reading(in HNu - unfts, parts per million,ppm) - FSW = Free Stand- ing Water Level _			
_						- -			
_									
						Soil/Bedrock — Description via Visual-Manual			
_						identification methods and ASTM 1586D.			

APPENDIX D TOPOGRAPHIC SURVEY MAP

APPENDIX E

SAMPLE DATA SUMMARY PACKAGE

(SOIL)



Job #: R93/0606

SAMPLE DATA SUMMARY PACKAGE

SECTION A:

SDG Narrative

SECTION B:

Sample Data

SECTION C:

Surrogate Summary

SECTION D:

MS/MSD

SECTION E:

Blank Data

INORGANICS QUALIFIERS - 1989

- C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.
- Q qualifier -- Specified entries and their meanings are as follows:
 - E The reported value is estimated because of the presence of intereference.
 - M Duplicate injection precision not met.
 - N Spiked sample recovery not within control limits.
 - S The reported value was determined by the Method of Standard Additions (MSA).
 - W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
 - * Duplicate analysis not within control limits.
 - + Correlation coefficient for the MSA is less than 0.995.
- M (Method) qualifier -- Enter:
 - "P" for ICP
 - "A" for Plame λλ
 - "F" for Furnace AA
 - "CV" for Manual Cold Vapor AA
 - "AV" for Automated Cold Vapor AA
 - "AS" for Semi-Automated Spectrophotometric
 - MCM for Manual Spectrophotometric
 - "T" for Titrimetric
 - "NR" if the analyte is not required to be analyzed.

T00000



Job #: R93/0606

ORGANICS QUALIFIERS - 1989

- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result isless than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- X As specified in Case Narrative.

SDG NARRATIVE

DAY ENGINEERING

GTC# R93/0606

Volatile Organics
One (1) water and one (1) soil sample were analyzed for target compound list volatile organics by EPA method 8240 with NYSDEC 1989 ASPB reportables. The following were included in SDG# DA001:

EPA Sample #	GTC Sample #
DA0 0 1	R93/0606-1
DAO 0 1DL	-1DL
DA0 0 2	-2
VBLK01	BLK01
VBLK02	BLK02
VBLK01MS	REF01
DA001MS	R93/0606-1MS
DA001MSD	-1MSD

No analytical or QC problems were encountered during the analysis of these samples.

Semivolatile Organics
One (1) soil sample was analyzed for target compound list semivolatile organics by EPA method 8270 with NYSDEC 1989 ASPB reportables. The following were included in SDG# DA001:

EPA Sample #	<u>GTC_Sample_#</u>
DA001	R93/0606-1
SBLK01	BLK01
SBLK01MS	REF01
DA001MS	R93/0606-1MS -1MSD
DA001MSD	-1130

No analytical or QC problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry Laboratory Director

3/17/93.
Date

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Tab	Namot	CENEDAT	TESTING CO	ממר	Contro	ct: DAY ENG			
								No. 1	D1001
	Code:		Case	NO.:	SAS No		SDG	ио.:	DA001
SOW	No.:	7/88							
			Sample No. DA001 DA001 D DA001 S		L	Mab Sample II 606-1 606-1D 606-1S	D.		
Max	a ICD	int e rol	oment corre	ctions applie	u42			Yes/N	o YES
								ŕ	
wer	If y	es, wer	e raw đata	ions applied? generated bef	ore			Yes/N	
	appl	ica t ion	of backgro	und correction	ns?			Yes/N	ю мо
Com	ments:	THE CHICH	nium resuit has b de the CC limits	een flagged with an of 10% (12.8%).	"E" because (the ICP serial dil	lution		
co ot in on	ndition the this flopp	ons o f to an t he har d c o p by d i s ke	he contract conditions y data pack tte has bee	package is in the chnice of the control of the cont	cally and re. Release compute by the La	d for comple ase of the d er-readable aboratory Ma	tene lata data inage	ess, f conta s subm	or ined mitted
Si	gnatur	re:	Michael K	100	Name:	Midnel K. Penny	<u>r</u>		
Da	te:		3/16/97		Title: _	Laboratory Direc	ctor_		
				COVER	PAGE - I	N		000	1000



Job #: R93/0606

SECTION B

SAMPLE DATA

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| DA001

Lab Sample ID: R93/606-1

Wab Name: GENERAL TESTING

Contract:DAY ENG.

CONCENTRATION UNITS:

Matrix: (soil/water) SOIL

mple wt/vol: 5.0 (q/mL) G Lab File ID: >A8892

Level: (low/med) LOW Date Received: 02/05/93

Moisture: not dec.14 Date Analyzed: 2/10/93

Lumn: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 7.0000

iquot Volume: -- (uL)

CAS NO.	COMPOUND	(ug/L or	ug/Kg)	⊌G/KG	(Q
			!			<u>'</u>
74-87-3	Chloromethane		!	12.	ΙU	!
	Bromomethane			12,	Įυ	
75-01-4	Vinyl Chloride	·		12.	ĮŪ	1
	Chloroethane			12,	Įυ	
75-09-2	Methylene_Chloride	}	I	6.	ΙU	1
1 67-64-1	Acetone Carbon disulfide_		!	11.	IJ	į
75-15-0	Carbon disulfide_		<u> </u>	6.	Įυ	İ
75-35-4	1,1-Dichloroethene	3	ŧ	6,	Įυ	į
	1,1-Dichloroethane			6.	U	İ
156-60-5	trans-1,2-Dichlore	oethene_	t	6.	ĮŪ	
156-59-2	cis-1,2-Dichloroe	thene	1	6.	ΙU	1
1 67-66-3	Chloroform		l	6.	ĮŪ	1
107-02-2	1,2-Dichloroethane	e	ŧ	6.	ΙU	į
1 78-93-3	2-Butanone		1	12.	IU	
171-55-6	1,1,1-Trichloroeth	nane	1	6.	ΙU	!
1 56-23-5	Carbon Tetrachlor:	ide	1	6,	Įυ	
1 75-27-4	Bromodichlorometha	ane	1	6.	ĮŪ	,
1 78-87-5	1,2-Dichloropropa	ne	{	6,	ΙU	
10061-01-5-	cis-1,3-Dichlorop	ropene	t	6.	ΙU	
79-01-6	Trichloroethene		t	6.	ĬŪ	
124-48-1	Dibromochlorometh	ane	1	6.	ĺΰ	
79-00-5	1,1,2-Trichloroet	hane		6,	įυ	
71-43-2	Benzene		i	6.	ĺŪ	
	trans-1,3-Dichlor-			6.	Ìυ	
75-25-2	Bromoform		i	6,	ĬŪ	
	4-Methyl-2-pentan			12,	įυ	
591-78-6	2-Hexanone		i	12,	įυ	
127-18-4	Tetrachloroethene		;	4-3.0	-	Ε
1 79-34-5	1,1,2,2-Tetrachlo	roethane	i	6.	•	_
1 108-88-3	Toluene		;	6.	įŪ	
108-90-7	Chlorobenzene		i	6.		
100-41-4	Ethylbenzene	· · · · · · · · · · · · · · · · · · ·	;	6.	•	
1 100-42-5	Styrene	··· · · · · · · · · · · · · · · · · ·	;	6.	-	
1 133-02-7	(m+p)Xylene		 ;	6.	ĮŪ	
1 133-02-7	o-Xylene		ł	6.	ĬÜ	
1	o ny zono		1	0.	İ	.
			+ :			4 1 (1

NYSDEC Sample No.: DA001

1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL)G

Level (low/med): LOW % Moisture: not dec. 14 Column (pack/cap): CAP

Number TIC's found: 0

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001 Lab Sample ID: R93/606-1

Lab File ID: >A8892
Date Received: 02/05/93

Date Analyzed: 02/10/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1,				
2.				
3.				
5.	<u> </u>			
6.				
				<u> </u>
8.				
$\frac{9}{10}$.				
11.				
12.				
13.				
14.				
) 			<u> </u>	
2.7				
18.	,			
19.				
20.				
21.				
22.			· · · · · · · · · · · · · · · · · · ·	
23.				
0.5				
26.				ļ
27.				
28.			ļ	
29.			 	
30.				-

FORM I VOX-TIC B-103

1A VOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

EPA SAMPLE NO.

DA001DL

Name: GENERAL TESTING Contract: DAY ENG.

Lab Sample ID: R93/606-1DL

acrix: (soil/water) SOIL

nple wt/vol: 2.0 (g/mL) G

Lab File ID: >A8895

evel: (low/med) LOW

Date Received: 02/05/93

Moisture: not dec.14

Date Analyzed: 2/10/93

calumn: (pack/cap) CAP

Dilution Factor: 1.00000

-Thal extract Volume: -- (uL) Conversion Factor: 1.0000

iquot Volume: -- (uL)

		CONCENTRATION UNITS:	
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q

74-87-3Chloromethane	_{	 U	
74-83-9Bromomethane	_1 29,	ΙŪ	
75-01-4Vinyl Chloride	_1 29.	ĬŪ	
75-00-3Chloroethane	_ 29.	1 U	
75-09-2Methylene_Chloride	_1 25.	ĬŪ	
67-64-1Acetone	_1 15.	IJ	
75-15-0Carbon disulfide	_ 1 15.	IU	
75-35-41,1-Dichloroethene	_	IU	
75-34-31,1-Dichloroethane	_	IU	
156-60-5trans-1,2-Dichloroethene	_; 15.	10	
156-59-2cis-1,2-Dichloroethene		-	
67 66 2 Chloroform	_\ 15.	ĮŪ	
67-66-3Chloroform	_! 15.	ΙU	
107-02-21,2-Dichloroethane		ΙŪ	
78-93-32-Butanone	_ 1 29.	ΙU	
71-55-61,1,1-Trichloroethane	_ 15.	ĮU	
56-23-5Carbon Tetrachloride	_ 15.	ΙU	
75-27-4Bromodichloromethane	_ 15.	ΙU	
78-87-51,2-Dichloropropane		ΙU	
10061-01-5cis-1,3-Dichloropropene	_ 15.	ĮŪ	
79-01-6Trichloroethene	_ 1 15.	ĮU	
124-48-1Dibromochloromethane	_ 15.	ĮŪ	
79-00-51,1,2-Trichloroethane	15.	ΙU	
71-43-2Benzene	l 15.	ľŪ	
10061-02-6trans-1,3-Dichloropropene	_ 1 15.	ΙU	
75-25-2Bromoform	_! 15.	ļŪ	
108-10-14-Methyl-2-pentanone	_1 29.	ΙU	
591-78-6- 2-nexanone	_1 29.	ĮU	
127-18-4Tetrachloroethene		1	
79-34-51,1,2,2-Tetrachloroethane	_1 15.	ĮU	
108-88-3Toluene	_l 15.	ΙU	
108-90-7- Chlorobenzene	t 15.	Įυ	
100-41-4Ethylbenzene	_ 15.	lU	
100-42-5Styrene	! 15.	ĺΰ	
133-02-7(m+p)Xylene	_l 15.	ĬŪ	
133-02-7 o-Xylene	15.	iŭ	

NYSDEC Sample No.: DA001DL

1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --Matrix: (soil/water) SOIL

(g/mL)G

Sample wt/vol: 2.0 Level (low/med): LOW ■ % Moisture: not dec. 14 Column (pack/cap): CAP

Number TIC's found: 0

Contract: DAY ENG.

SλS No.: -- SDG No.:Dλ001 Lab Sample ID: R93/606-1DL

Lab File ID: >λ8895 Date Received: 02/05/93 Date Analyzed: 02/10/93 Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	-==================================		=======	=====
2.				
3.				i
4.				t
5.				i
6.				
7,				· · · · · · ·
8.				
9.				
10.				·
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19,				
20.				
20.				
22.				
22.				
24.				
25.				
26.				
27.				<u> </u>
28.				
29.				
30.				
. — — — — — — — — — — — — — — — — — — —				

FORM I VOA-TIC B-103

1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DA002

Name: GENERAL TESTING Contract: DAY ENG.

p Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

.atrix: (soil/water) WATER Lab Sample ID: R93/606-2

nple wt/vol: 5.0 (g/mL) ML Lab File ID: >E3623

Level: (low/med) LOW Date Received: 02/05/93

Moisture: not dec.100 Date Analyzed: 2/09/93

Lumn: (pack/cap) CAP Dilution Factor: 1.00000

inal extract Volume: -- (uL) Conversion Factor: 1.0000

iquot Volume: -- (uL)

o vozame.	(44)				
~			CONCENTRATION UNITS:		
CAS NO.	COMPOUND	(ug/L or	ug/Kg)	UG/L	Q
74 87 3	Chlaranathana		ļ	4.0	
74-07-3	Chloromethane		!	10.	ΙU
75 01 4	Bromomethane		!	10.	ΙU
75-01-4	Vinyl Chloride_		<u> </u>	10.	ΙŪ
75-00-3	Chloroethane	!	!	10.	ΙU
6764 1	Methylene_Chlor	rde	——- <u>{</u>	5.	ĮŪ
75-15-0	Acetone Carbon disulfide			10.	ΙU
75-25-4	1,1-Dichloroeth	3	<u> </u>	5.	IU
75-31-3	1,1-Dichioroeth	ene	{	5.	10
156 60 5	1,1-Dichloroetha	ane	!	5.	Į U
156 50 2	trans-1,2-Dichle	oroethene_	<u>[</u>	5.	Įυ
130-39-2	cis-1,2-Dichlore	oetnene	!	5.	ĮŪ
6/-66-3 -	Chloroform		<u>-</u>	5.	lU
10/-02-2	1,2-Dichloroeth	ane	}	5.	ĮŪ
78-93-3	2-Butanone		!	10.	ΙU
71-55-6	1,1,1-Trichloro	ethane	l	5.	ΙU
56-23-5	Carbon Tetrachle	oride		5.	ΙU
75-27-4	Bromodichlorome	thane	I	5.	ΙU
78-87-5 -	1,2-Dichloropro	pane	1	5.	ΙU
10061-01-5-	cis-1,3-Dichlor	opropene	1	5,	IU
79-01-6	Trichloroethene		ì	5.	l U
124-48-1	Dibromochlorome	thane	1	5.	ΙU
79-00-5 	1,1,2-Trichloro	ethane		5.	l U
	Benzene		l	5.	IU
10061-02-6-	trans-1,3-Dichl	oropropene	1	5.	ΙU
75-25-2	Bromoform		l	5.	ĮU
108-10-1	4-Methy1-2-pent	anone	1	10.	ΙU
591-78-6- -	2-Hexanone		I	10.	Įυ
127-18-4	Tetrachloroethe	ne	ŧ	5.	ΙU
79-34-5 -	1,1,2,2-Tetrach	loroethane	1	5.	ĮŪ
108-88-3	Toluene		1	5.	ΙU
108-90-7	Chlorobenzene		t	5.	ĺυ
100-41-4	Ethylbenzene		ŧ	5.	ĺυ
100-42-5	Styrene		1	5.	ĺυ
133-02-7	(m+p)Xylene		1	5.	ĺŪ
133-02-7	o-Xylene			5.	ĺΰ
	-		i	- •	1

NYSDEC Sample No.: DA002

1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 3

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001 Lab Sample ID: R93/606-2

Lab File ID: >E3623
Date Received: 02/05/93
Date Analyzed: 02/09/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1	Unknown	4.56	6.0	J
2	U n known	7,32	60	J J
1. 2. 3.	Unknown	7,65	64	J
4.	VAIN VIII			
5.				
7. 8. 9.				
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FORM I VOA-TIC B-103

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DA001

ab Name:GENERAL TESTING

Contract: DAY ENG.

SDG No.: DA001 Code: 10145 Case No.: --- SAS No.: ---

(atrix: (soil/water) SOIL Lab Sample ID: R93/606-1

nple wt/vol: 30 (g/mL) G Lab File ID: >D9343

(low/med) LOW Date Received: 02/05/93

Moisture: not dec.14 dec. ---Date Extracted: 02/08/93

Date Analyzed: 2/17/93 C Cleanup: (Y/N) Y pH:9,3

'inal Extract Volume:1 Dilution Factor: 1.00000 (uL)

ection Volume: 1 (uL) Conversion Factor: 1,0000

CONCENTRATION UNITS:

CAS NO. COMPOUND (uq/L or uq/Kq) UG/KG IU 108-95-2-----Phenol 780. 111-44-4----bis(-2-Chloroethyl)Ether____i 780. 1 U 95-57-8------i 780. ΙU | 541-73-1----1,3-Dichlorobenzene______| 780. IU 106-46-7----1,4-Dichlorobenzene_____ 780. IU 780. IU 780. IU 108-60-1----2,2'-oxybis(1-Chloropropane) 780. IU | 106-44-5----4-Methylphenol_____ 780. IU | 621-64-7----N-Nitroso-Di-n-propylamine___i 780. IU | 67-72-1-----Hexachloroethane_____| 780. IU 780. 1 U 78-59-1-----Isophorone_____ 780. IU | 88-75-5----2-Nitrophenol____ 780. 1U | 105-67-9----2,4-Dimethylphenol_____| 780. ΙU 111-91-1----bis(-2-Chloroethoxy)Methane_i 10 780. 120-83-2----2,4-Dichlorophenol 780. 1 U | 120-82-1----1,2,4-Trichlorobenzene_____| 780. IU 780. IU 91-20-3-----Naphthalene___ 106-47-8-----4-Chloroaniline____ 780. 1U | 87-68-3-----Hexachlorobutadiene______ 780. ΙU 780. $\pm U$ 780. IU 77-47-4-----Hexachlorocyclopentadiene____| 780. IU | 88-06-2----2,4,6-Trichlorophenol_____| 780. IU | 95-95-4----2,4,5-Trichlorophenol_____| 3900. IU 91-58-7----2-Chloronaphthalene 780. ΙU 88-74-4----2-Nitroaniline 3900. ΙU | 131-11-3----Dimethyl Phthalate 780. ΙU 208-96-8-----Acenaphthylene_____ 780. IU | 606-20-2----2,6-Dinitrotoluene_____| 780. ΙU 1 C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

DA001

TO Name: GENERAL TESTING Contract: DAY ENG.

Lab Sample ID: R93/606-1 'atrix: (soil/water) SOIL

nple wt/vol: 30 (g/mL) G Lab File ID: >D9343

Date Received: 02/05/93 vel: (low/med) LOW

Moisture: not dec.14 dec. --- Date Extracted:02/08/93

CC Cleanup: (Y/N) Y pH:9.3 Date Analyzed: 2/17/93

inal Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL) Conversion Factor: 1.0000

		CONCENTRATION UNITS:				
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q			

				:
99-09-2	3-Nitroaniline	3900.	ן ט	ı İ
83-32-9	Acenaphthene	780.	ĺΰ	į
51-28-5	2,4-Dinitrophenol	3900.	ίŬ	i
	4-Nitrophenol	3900.	ĺυ	1
	Dibenzofuran	780.	iυ	i
	2,4-Dinitrotoluene	780.	įυ	İ
84-66-2	Diethylphthalate	780.	IU	1
7005-72-3	4-Chlorophenyl-phenylether	780.	įυ	1
	Fluorene	780.	ĺυ	1
	4-Nitroaniline	3900.	İU	
	4,6-Dinitro-2-methylphenol	3900.	ΙŪ	
	N-Nitrosodiphenylamine (1)	780.	ĺŪ	
101-55-3	4-Bromophenyl-phenylether	780,	ĺŪ	
	Hexachlorobenzene	780,	ĪU	
	Pentachlorophenol	3900.	ĺυ	1
85-01-8	Phenanthrene	780.	įυ	
120-12-7	Anthracene	780.	ΙU	
	Carbazole	780.	Ü	
	Di-n-Butylphthalate	130.	iJВ	
	Fluoranthene	780.	iυ	
129-00-0	Pyrene	780.	ĺυ	
	Butyl benzyl_phthalate	780.	įυ	
	3,3'-Dichlorobenzidine	1600.	įU	
	Benzo(a)Anthracene	780.	įυ	
218-01-9	Chrysene	780.	įυ	
	Bis(2-Ethylhexyl)Phthalate	780.	įU	
	Di-n-octyl_phthalate	780.	ĺΰ	
	Benzo(b)fluoranthene	780.	ĺυ	
	Benzo(k)Fluoranthene	780.	įυ	
50-32-8	Benzo(a)Pyrene	780,	įŪ	
193-39-5	Indeno(1,2,3-cd)Pyrene	780.	įυ	
	Dibenz(a,h)anthracene	780.	įυ	
	Benzo(g,h,i)Perylene	780.	Ü	
		1	i -	

(1) - Cannot be separated from Diphenylamine

NYSDEC Sample No: DA001

1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.

Lab Code: 10145 Case No.: --

Matrix: (soil/water) SOIL Sample wt/vol: 30 (g/mL) G

Level (low/med): LOW

% Moisture: not dec. 14 dec. Extraction: (SepF/Cont/Sonc)SONC

GPC Cleanup (Y/N) Y pH 9.3

Number TIC's found: 5

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001

Lab Sample ID: R93/606-1

Lab File ID: >D9343

Date Received: 02/05/93
Date Extracted: 02/08/93
Date Analyzed: 02/17/93

Dilution Factor: 1.0

Concentration Units: UG/KG

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
_1.	Unknown	6,69	1000	JAB
_2.	U n known	7,21	11000	JA
_3.	Unknown	8.78	370	JAB
4.	Unknown	9.34	650	JA
5.	U n known	10.67	580	JB
_6.				
_8.				
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FORM I SV-TIC NYSDEC B-78



SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

DA001_

Lab Code: 10145

Case No.:

SAS No.:

SDG No.: DA001

Matrix (soil/water): SOIL

Lab Sample ID: 606-1

Level (low/med):

LOW

Date Received: 02/05/93

% Solids:

86.0

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

CAS No.	Analyte	Concentration	С	Q	м
7429-90-5	Aluminum				
7440-36-0	Antimony		1-1		_
7440-38-2	Arsenic	7.7	-		F
7440-39-3	Barium	58.6	-		P
7440-41-7	Beryllium		-		
7440-43-9	Cadmium	0.60	-		P
7440-70-2	Calcium				
7440-47-3	Chromium	13.1	-	E	\overline{P}
7 4 40-48-4	Cobalt				_
7440-50-8	Copper				
7439-89-6	Iron				_[
7439-92-1	Lead	12.9			P
7 4 39-95-4	Magnesium				
7439-96-5	Manganese				
<u>7439-97-6</u>	Mercury	0.05	U		CV
7 4 40-02-0	Nickel				
7 4 40-09-7	Potassium				
7782-49-2	Selenium	0.23	U		F
7 4 40-22-4	Silver	2.1		N	$- \overline{A}$
7 4 40-23-5	Sodium				
7440-28-0	Thallium				
7 4 40-62-2	Vanadium				
7 4 40-66-6	Zinc				
	Cyanide	0.43	Ū		AS

2AWATER VOLATILE SURROGATE RECOVERY

b Name: GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

	EDA						·•
, 1	EPA	N/O	S1	52			TOT
; ;	SAMPLE		(TOL)#	(BEB)#	(DCE)#		OUT
011					****		† = = = †
021	VBLK02		102	90	99	ł	0 1
031	DA002		100	90	96		101
041				·	 	ļ	11
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QC LIMITS

- S1 (TOL) Toluene-d8 (88-110)
- S2 (BFB) = Bromofluorobenzene (86-115)
- S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)
- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

2 B SOIL VOLATILE SURROGATE RECOVERY

Name: GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

Tevel:(low/med) LOW

· · · · · · · · · · · · · · · · · · ·					·
EPA	S1	S 2	-	•	TOT
SAMPLE NO), [(TOL)#	[(BFB)#:	(DCE)#	1	OUT
	= = = = = =	======	=====	======	===
01 VB LK01	101	1 98	103	t	0
02 VBLK01MS	101	100	98	t	101
03 DA001	105	92	99	ŧ.	101
04 DA001MS	105	1 93	98	t	1 0 1
05 DA001MSD	107	92	98	Ţ	101
06 DA001DL	105	95	100	!	10
07	1	l	l	l	11
081		l	1	! <u></u>	ll
091		l	l	1	11
101	1	l	l	1	11
111		l	l	1	11
121		l	1	l	11
131		l	l	l	11
14		1	l	1	11
15	I	l	1	l	.11
16		1	l	l	.
17 		l	l	1	.
18	1	1	1	1	.
19		l	l	l	.
201		1	1	1	
21		l	l	1	.
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QC LIMITS

S1 (TOL) = Toluene-d8 (81-117) S2 (BFB) = Bromofluorobenzene (74-121)

53 (DCE) = 1,2-Dichloroethane-d4 (70-121)

- # Column to be used to flag recovery values
- * Values outside of contract required QC limits
- D Surrogates diluted out

SOIL SEMIVOLATILE SURROGATE RECOVERY

Name: GENERAL TESTING

Contract: DAY ENG.

evel:(low/med) LOW

1	EPA	S1	52	53	54	S 5	56	OTHER	TOT
ł	SAMPLE NO.	(NBZ)#	(FBP)#	(TPH)#	(PHL)#	(2FP)#	(TBP)#		IOUT
1	=========	======	=====	222223	22322	22222	22223		
	SBLK01	101	103	103	92	87	101		0
1	SBLK0 1 MS	93	103	106	86	82	107	ŧ	10
1	DA001	96	106	105	88	81	96	•	; 0
:	DA001 M S	97	106	109	87	82	105	I	10
1	DA001 M SD	78	91	95	74	68	86	!	f 0
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QC LIMITS
S1 (NBZ) = Nitrobenzene-d5
                                  \{23-120\}
S2 (FBP) = 2-Fluorobiphenyl
                                  (30-115)
S3 (TPH) = Terphenyl-d14
                                   (18-137)
$4 (PHL) = Phenol-d5
                                   (24-113)
S5 (2FP) = 2-Fluorophenol
                                   (25-121)
S6 (TBP) = 2,4,6-Tribromophenol
                                  (19-122)
```

[#] Column to be used to flag recovery values

^{*} Values outside of contract required QC limits

D Surrogates diluted out



Job #: R93/0606

SECTION D

MS/MSD

SOIL VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

ab Name: GENERAL TESTING CORP. Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.:DA001

Matrix Spike - EPA Sample No.: DA001

OMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENT.	CONCENT.	%	LIMITS
	(ug /kg)	(ug/kg)	(ug/kg)	REC #	% REC.
1,1-Dichloroethene richloroethene enzene Foluene Chlorobenzene	50 50 50 50 50	0 0 0 0	58 57 56 60 60	116 114 112 120 120	D-234 71-157 37-151 47-150 37-160

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
i,1-Dichloroethene richloroethene Benzene Toluene Chlorobenzene	50	60	120	3	30	D-234
	50	58	116	2	30	71-157
	50	58	116	. 4	30	37-151
	50	63	126	. 5	30	47-150
	50	61	122	2	30	37-160

Column to be used to flag recovery and RPD values with an asterisk

*	Values	outsi de	of	OC	limits
---	--------	-----------------	----	----	--------

0 out of 5 outside limits.

Spike Recovery: 0 out of 10 outside limits.

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FORM III VOA-2

SOIL VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

-Matrix Spike - EPA Sample No.: VBLK01MS

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENT.	CONCENT.	%	LIMITS
	(ug/kg)	(ug/kg)	(ug/kg)	REC #	% REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	20 20 20 20 20 20	0 0 0 0 0	21 20 21 21 21	105 100 105 105 105	D-234 71-157 37-151 47-150 37-160

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC #	% RPD #	QC LIMITS RPD %REC
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene					

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

out of 5 outside limits.

Spike Recovery: 0 out of 0 outside limits.

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FORM III VOA-2

VO**L**ATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01MS

ab Name:GENERAL TESTING

Contract: DAY ENG.

CONCENTRATION UNITS:

Matrix: (soil/water) SOIL Lab Sample ID: REF01

mple wt/vol: 5.0 (g/mL) G Lab File ID: >A8891

Level: (low/med) LOW Date Received: --/--/--

Moisture: not dec.0.1 Date Analyzed: 2/10/93

Tlumn: (pack/cap) CAP Dilution Factor: 1.00000

rinal extract Volume: -- (uL) Conversion Factor: 7.0000

iquot Volume: -- (uL)

CAS NO.		g/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	1 23	}
74-83-9	Bromomethane		- •
75-01-4	Vinyl Chloride		•
75-00-3	Chloroethane		- •
75-09-2	Methylene_Chloride_		•
67-64-1	Acetone	i	·
75-15-0	Carbon disulfide	1 19	•
75-35-4	1,1-Dichloroethene_		•
75-34-3	1,1-Dichloroethane		-
156-60-5	trans-1,2-Dichloroet	thenei 21	•
156-59-2	cis-1,2-Dichloroethe	ene l	•
67-66-3	Chloroform	1 21	•
107-02-2	1,2-Dichloroethane_	21	•
78-93-3	2-Butanone	1 16	•
71-55-6	1,1,1-Trichloroethar	ne	
56-23-5	Carbon Tetrachloride	2 21	•
75-27-4	Bromodichloromethane	21	•
78-87-5	1,2-Dichloropropane		•
10061-01-5	cis-1,3-Dichloroprop	pene	· ·
79-01-6	Trichloroethene	pene	-
124 40 1	Dibromochloromethane		- ·
70 00 5	4 4 3 This land than	23	-
71 12 2	1,1,2-Trichloroethau	10	-
10061 02 6	trans-1,3-Dichlorop		
75 25 2	Premafarm	ropene 22	•
100 10 1	Bromoform		•
108-10-1	4-Methyl-2-pentanone	9	•
591-/8-6- -	2-Hexanone	! 15	•
12/-18-4	Tetrachloroethene		•
/9-34-5	1,1,2,2-Tetrachloroe	ethane! 21	•
108-88-3	Toluene		•
108-90-7	Chlorobenzene		•
100-41-4	Ethylbenzene		-
100-42-5	Styrene		•
133-02-7	(m+p)Xylene		5. IU
133-02-7	o-Xylene	20).

SOIL SEMIVOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

b Name: GENERAL TESTING CORP.

Contract: DAY ENG.

atrix Spike - EPA Sample No.: Dλ001

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENT. (ug/Kg)	MS CONCENT. (ug/Kg)	MS % REC	#	QC LIMITS % REC
rhenol	15500	0	12000	77		5-112
2-Chlorophenol	15500	О	14000	90		23-134
,4-Dichlorobenzene	7700	0	7300	95		20-124
-Nitroso-Di-n-Prop.(1)	7700	0	7200	94		D-230
1,2,4-Trichlorobenzene	7700	0	7400	96		44-142
m -Chloro-3-Methylphenol	15500	0	14000	90		22-147
cenaphthene	7700	0	7800	101		47-145
4-Nitrophenol	15 500	0	17000	110		D-132
2,4-Dinitrotoluene	7700	0	8200	106		39-139
entachlorophenol	15500	0	9400	61		14-176
Pyrene	7700	0	8200	106		52-115

DMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENT: (ug/Kg)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
Phenol	15500	9800	63	20	30	5-112
_2-Chlorophenol	15500	12000	77	15	30	23-134
,4-Dichlorobenzene	7700	6100	79	18	30	20-124
M-Nitroso-Di-n-Prop.(1)	7 7 0 0	5900	77	20	30	D-230
1,2,4-Trichlorobenzene	7700	6300	82	16	30	44-142
-Chloro-3-Methylphenol	15500	11000	71	24	30	22-147
Acenaphthene	7700	6800	88	14	30	47-145
4-Nitrophenol	15 500	14000	90	19	30	D-132
⊒2,4-Dinitrotoluene	7700	7000	91	16	30	39-139
Pentachlorophe n ol	15500	7200	46	27	30	14-176
Pyrene	7700	7300	95	12	30	52-115

⁽¹⁾ N-Nitroso-di-n-propylamine

RPD: 0 out of 11 outside limits.

Spike Recovery: 0 out of 22 outside limits.

COMMENTS: ____

[#] Column to be used to flag recovery and RPD values with an asterisk Values outside of QC limits

SOIL SEMIVOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

ab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

Matrix Spike - EPA Sample No.: SBLK01MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENT. (ug/Kg)	MS CONCENT. (ug/Kg)	MS	QC LIMITS % REC
Phenol	15500	0	9800	63	5-112
■2-Chlorophenol	15500	0	12000	77	23-134
1,4-Dichlorobenzene	7700	0	5800	75	20-124
N-Nitroso-Di-n-Prop.(1)	7700	0	5900	77	D-230
1,2,4-Trichlorobenzene	7700	0	6000	78	44-143
1-Chloro-3-Methylphenol	15500	0	12000	77	22-14
Acenaphthene	7700	0	6500	84	47-14
4-Nitrophenol	15 500	0	15000	97	D-13
2,4-Dinitrotoluene	7700	0	7100	92	39-13
Pentachlorophe n ol	15500	0	8400	54	14-17
Pyrene	7700	0	6800	88	52-11

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENT. (ug/Kg)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-Di-n-Prop.(1) 1,2,4-Trichlorobenzene 4-Chloro-3-Methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene						

⁽¹⁾ N-Nitroso-di-n-propylamine # Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

out of 6 outside limits. RPD: 0

Spike Recovery: 0 out of 12 outside limits.

COMMENTS:

| VBLK01MS

ab Name: GENERAL TESTING

Contract:DAY ENG.

(atrix: (soil/water) SOIL

Lab Sample ID: REF01

nple wt/vol: 5.0 (g/mL) G

Lab File ID: >A8891

Havel: (low/med) LOW

Date Received: --/--/--

Moisture: not dec.0.1

Date Analyzed: 2/10/93

Lumn: (pack/cap) CAP

Dilution Factor: 1.00000

inal extract Volume: -- (uL)

Conversion Factor: 7.0000

iquot Volume: -- (uL)

	•	CONCENT	TRATION	UNITS:	
CAS NO.	COMPOUND	(ug/L d	or ug/Kg) UG/KG	Q
74 07 2	Ch 1	·]		!
74 02 0	Chloromethane	. ,		23.	ı
74-83-9	Bromomethane		!	23.	l
75-01-4	Vinyl Chloride_		!	24.	l
75-00-3	Chloroethane	: 1 -	!	23.	1
/3-09-2	Methylene_Chlor	1de	!	22.	[
5/-54-1 - -	Acetone Carbon disulfid	· ·	!	14.	1
/5-15-0	Carbon disulfid	e	!	19.	1
75-35-4	1,1-Dichloroeth	ene		21.	1
/5-34-3	1,1-Dichloroeth	ane		20.	1
156-60-5	trans-1,2-Dichl	oroethene	9∤	21.	1
156-59-2	cis-1,2-Dichlor			5.	ĮU
67-66-3	Chloroform		l	21.	1
107-02-2	1,2-Dichloroeth	ane	†	21.	1
78-93-3 -	2-Butanone		1	16.	1
71-55-6	1,1,1-Trichloro	ethane		21.	1
56-23-5	Carbon Tetrachl	oride		21.	1
75-27-4	Bromodichlorome	thane	j	21.	ĺ
78-87-5	1,2-Dichloropro	pane	ŀ	21.	i
10061-01-5	cis-1,3-Dichlor	opropene	i	19.	i
79-01-6	Trichloroethene		·	20.	i
124-48-1	Dibromochlorome	thane	;	22.	i
79-00-5	1,1,2-Trichlore	ethane		20.	i
71-43-2	Benzene			21.	i
	trans-1,3-Dichl	oroproper	16	22.	i
75-25-2	Bromoform	01001000		22.	ŀ
108-10-1	4-Methyl-2-pent	anone		18.	ì
591-78-6	2-Hexanone	anone		15.	1
127-18-4	Tetrachloroethe	ne		21.	1
79-34-5	1,1,2,2-Tetrach	loroathar	· ·		1
108-88-3	Toluene	TOLOCUIGI		21. 21.	1
108-90-7	Chlorobenzene				1
100-41-4	Ethylbenzene		!	21.	i I
100-42-5	Styrene		<u>_</u>	23.	Ţ
133-02-7	-DCyrene		<u>-</u>	26.	1
133-02-7	(m+p)Xylene o-Xylene			5.	ĮŪ
133-02-/	o-varene		I	20.	1

5λ SPIKE SAMPLE RECOVERY

SAMPLE NO.

DA001_S

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145

Case No.:

SAS No.:

SDG No.: DA001

Matrix (soil/water): SOIL

% Solids for Sample: 86.0

Level (low/med): LOW

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

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) (Spike	\$R	Q	м
Aluminum						_	NR
Antimony							NR
Arsenic	7 5 -125	12.4249	7.6789	4.52	105.0		F_
Barium	7 5 -125	269.6899	58.6085	232.56	90.8	_ .	P
Beryllium						 	NR
Cadmium	7 5 -125	7.5969	0.6017	5.81	120.4	_	<u>P</u>
Calcium				_		_	NR
Chromium	7 5-1 25	33.5775	13.1124	23.26	88.0	-	<u>P</u>
Cobalt				_	ļ	 —	NR
Copper						_	NR
Iron				-	l	 —	NR
Lead	<u>75-125</u>	79.0775	12.9494	58.14	113.7	-	P_
Magnesium_				-	ļ 	-	NR
Manganese						-	NR
Mercury	75-125	0.5756	0.0529	U 0.58	99.2	-	CV
Nickel				_		-	NR
Potassium						-	NR
<u>Selenium</u>	75-1 25	1.3022	.	<u>U</u> 1.13	115.2	• —	E_
Silver	<u>75-125</u>	5.5317	2.1450	5.64	60.0	N	
Sodium	.		. -			-	NR
Thallium		.	-		ļ	-	NR
Vanadium		.	. -		ļ 	-	NR
Zinc		·			ļ 	-	NR
Cyanide	75-125	11.7949	0,4285	<u>U 11.10</u>	106.3	1_	AS

Comments:

5B

POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Dλ001_λ

Lab Code: 10145 Case No.: SAS No.:

SDG No.: DA001

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) (C	Sample Result (SR)		Spike Added (SA)	%R	Q	М
Aluminum			-		-				NR
Antimony			_		_				NR
Arsenic									NR
Barium		2322.00	_	504.03		2000.0	90.9	_	P
Beryllium								_	NR
Cadmium		52.50	_	5.43	_	50.0	94.1	_	P
Calcium								_	NR
Chromium		283.23	_	112.77	_	200.0	85.2		P_
Cobalt			_				ļ	-	NR
Copper			_			ļ	\ 	 -	NB
Iron			-1	116.00	_	500.0	100 3	-	NR
Lead		617.80	-	116.93		500.0	100.2	-	P
Magnesium					-		·	1-	NR NR
<u>Manganese</u>			-		-	ļ		-	NR
Mercury			-		-	· · · · · · · · · · · · · · · · · · ·		1-	NR
Nickel Potassium	ļ - 		-			ļ		\ -	NR
Selenium	·		-		-			-	NR
Silver	·		-					-	NR
Sodium					_				NR
Thallium			_		_				NR
Vanadium								. [_	NR
Zinc							.]	. [_	NR
Cyanide			_		_		.	. I _	NR]

Comments:

DUPLICATES

SAMPLE NO.

Dλ001_D

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.:

SAS No.:

SDG No.: DA001

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 86.0

% Solids for Duplicate: 86.0

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

Analyte	Control Limit	Sample (S)	С	Duplicate (D)	С	RPD	Q	М
Aluminum							1-1	
Antimony								
Arsenic	1.1	7.6789		8.2178		6.8		F_
Barium	23.3	58.6085		57.0000		2.8	1	P_
Beryllium	l		_				. _	1
Cadmium	0,6	0.6017	_	0.6601	.	9.3	- _	<u>P</u> _
Calcium			_		.		-	I
Chromium		13.1124	-	12.3992	.	5.6	-	P
Cobalt					-		 -	∤
Copper			-		-	 	· ·	I
Iron Lead		12.9494		14.3027	·	9.9	<u>;</u>	P
Magnesium		12.9494	1-1	14.3027	·}-⊦	9.9	-	- -
Manganese]	1-1		1-1		<u> </u>	
Mercury		0.0529	핍	0.0581	Ū		-	CV
Nickel				0.0301	. →		—	<u> </u>
Potassium			-		1-1	 	-	
Selenium		0.2258	U	0.2890	В	200.0	-	F
Silver	1.1	2.1450]_[1.7269		21.6		F A
Sodium]					
Thallium	.							I = I
Vanadium		<u> </u>	1_1					II
Zinc		<u> </u>	1_1		_ _			
Cyanide	.	0.4285	Π	0.4302	- 파		_	AS



Job #: R93/0606

SECTION E

BLANK DATA

VOLATILE METHOD BLANK SUMMARY

Name: GENERAL TESTING Contract: DAY ENG.

D Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

_b File ID: ➤A8890

Lab Sample ID: BLK01

te Analyzed: 2/10/93

Time Analyzed: 12:48

atrix: (soil/water) SOIL

Level:(low/med) LOW

Column : Rtx-502 ID- 0.53 mm

instrument ID: MS#1

Heated Purge (Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

·			
E PA	LAB	LAB	TIME
SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	= = = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =	*======================================
01 VBLK01MS	REF01	>∆ 8891	13:44
02 DA0 0 1	R93/606+1	→A8892	14:39
03 DA0 01MS	R93/606-1MS	E088A<	15:28
04 DA0 0 1MSD	R93/606-1MSD	>A8894	16:17
05 DA0 0 1DL	R93/606-1DL	→A8895	17:06
06		1	1
)7		l	
08		1	
19			
			1
. 3		1	1
L4		1	
. 5			[
L6	l	1	1
L7	l	l	!
181	l		1
.9			
ا اما	4		
22			
23			1
24	l	i	
25		1	
26			
. - 1			
28			
291			1
301	1	1	

MMENTS:	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

b Name:GENERAL TESTING Contract:DAY ENG.

Lab Sample ID: BLK01

Tatrix: (soil/water) SOIL

mple wt/vol: 5.0 (g/mL) G Lab File ID: >A8890

<u>Level</u>: (low/med) LOW Date Received: --/--/--

Moisture: not dec.0.1

Date Analyzed: 2/10/93

falumn: (pack/cap) CAP Dilution Factor: 1.00000

inal extract Volume: -- (uL) Conversion Factor: 7.0000

iquot Volume: -- (uL)

	(41)	CONCENT	TRATION U	INITTC.	
CAS NO.	COMPOUND		or ug/Kg		Q
74-87-3	Chloromethane		1	10.	ן U
74-83-9	Bromomethane		· · · · · · · · · · · · · · · · · · ·	10.	Ü
75-01-4	Vinyl Chloride_		 ;	10.	ĺŬ
75-00-3	Chloroethane			10.	iŪ
75-09-2	Methylene Chlor	ide	ŧ	5,	įυ
67-64-1	Acetone Carbon disulfid		i	10.	įυ
75-15-0	Carbon disulfid	e		5.	iū
75-35-4	1,1-Dichloroeth	ene		5.	ĬU
75-34-3	1,1-Dichloroeth	ane	t	5.	ĬU
156-60-5	trans-1,2-Dichl	oroethene	e	5.	ĬŪ
156-59-2	cis-1,2-Dichlor	oethene	t	5.	ľŪ
67-66-3	Chloroform		i	5,	
107-02-2	1,2-Dichloroeth	ane	t t	5.	
78-93-3	2-Butanone		1	10.	•
71-55-6	1,1,1-Trichloro	ethane	1	5,	ĬU
56-23-5	Carbon Tetrachl	oride	ŧ	5,	ĺυ
75-27-4	Bromodichlorome	thane	1	5.	Ü
78-87-5	1,2-Dichloropro	pane		5.	Ü
10061-01-5	cis-1,3-Dichlor	opropene	1	5.	
79-01-6	Trichloroethene		1	5.	įυ
124-48-1	Dibromochlorome	thane	i	5.	ĺυ
79-00-5	1,1,2-Trichloro	ethane	1	5,	ĺŪ
71-43-2	Benzene		i	5.	ĬŪ
10061-02-6	trans-1,3-Dichl	oroprope	ne!	5.	ľŪ
75-25-2	Bromoform		1	5.	ĬŪ
108-10-1	4-Methyl-2-pent	anone		10.	ĬŪ
591-78-6	2-Hexanone		I	10,	ĬU
127-18-4	Tetrachloroethe	ne		5.	ĬŪ
79-34-5	1,1,2,2-Tetrach	loroethai	neI	5.	IU
108-88-3	Toluene		1	5.	ĮU
108-90-7	Chlorobenzene		t	5.	ĮU
100-41-4	Ethylbenzene	· -		5.	ĮU
100-42-5	Styrene		!	5.	ĮŪ
133-02-7	(m+p)Xylene			5.	IU
133-02-7	o-Xvlene		ı	5.	ΙU

NYSDEC Sample No.: VBLK01

1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) SOIL

Sample wt/vol: 5.0 (g/mL)G

Level (low/med): LOW % Moisture: not dec. 0.1 Column (pack/cap): CAP

Number TIC's found: 0

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001

Lab Sample ID: BLK01
Lab File ID: >A8890

Date Received:

Date Analyzed: 02/10/93 Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7			<u></u>	
8.				
9.		ļ		
10.				
11.				
12.			-	
13.		 		
14.	1 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -			<u> </u>
15.		 		
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17.				
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22.	1 1			
23.		 	,	
24.		 		
25.	The state of the s	· · · · · · · · · · · · · · · · · · ·		<u> </u>
26.				
27.				
28.				
29.				
30.				

FORM I VOA-TIC B-103

VOLATILE METHOD BLANK SUMMARY

Name: GENERAL TESTING Contract: DAY ENG.

Code: 10145 Case No.: --- SAS No.: --- SDG No.: DA001

ab File ID: >E3619

Lab Sample ID: BLK02

Ee Analyzed: 2/09/93

Time Analyzed: 10:28

atrix: (soil/water) WATER

Level:(low/med) LOW

Column : Rtx-502 ID+ 0.53 mm

MS5

Heated Purge (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	·			
l	E PA	LAB	l LAB	TIME
1	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
	=======================================	_======================================	==========	
01	DA002	R93/606-2) →E3623	13:19
02		i I	1	1
031			I	!
04				\
05				·
06				
07			i	
80	l	I	1	1
091				<u> </u>
10			1	1
11				
12			1	
13				
14			1	
15			1	
16		1		
17				
18				l
19				
20				l
21				i
22			i	!
23				!
24			1	
25		1	1	·
26			1	·
27			<u> </u>	l
28			·	! . !
29	·		1	l ————————————————————————————————————
30			1	l
5 0	·	I	l	1

DMMENTS:	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| VBLK02

b Name:GENERAL TESTING

Contract: DAY ENG.

latrix: (soil/water) WATER

Lab Sample ID: BLK02

mple wt/vol: 5.0 (g/mL) ML

Lab File ID: >E3619

Level: (low/med) LOW

Date Received: --/--/--

Moisture: not dec.100

Date Analyzed: 2/09/93

Lumn: (pack/cap) CAP

Dilution Factor: 1.00000

inal extract Volume: -- (uL)

Conversion Factor: 1.0000

CONCENTRATION UNITS:

iquot Volume: -- (uL)

CAS NO.	COMPOUND (ug	//L or ug/Kg) t	JG/L	Q
74-87-3	Chloromethane		10.	 U
74-83-9	Bromomethane		10.	=
75-01-4	Vinyl Chloride		10.	Ü
75-00-3	Chloroethane		10.	IV
75-09-2	Methylene_Chloride		5,	ĬŬ
67-64-1	Acetone		10.	ĺΰ
75-15-0	Carbon disulfide		5,	ĺŬ
75-35-4	1,1-Dichloroethene_	······································	5,	ĬŬ
75-34-3	1,1-Dichloroethane		š.	
156-60-5	trans-1,2-Dichloroet	hene	5.	ίŬ
156-59-2	cis-1,2-Dichloroethe	ene	5.	ίŬ
67-66-3			5.	ĬŬ
	1,2-Dichloroethane_		5.	ĬŬ
78-93-3	2-Butanone		10.	ĬŬ
71-55-6	1,1,1-Trichloroethar	ne l	5.	ĮŪ
56-23-5- 	Carbon Tetrachloride		5.	IU
75-27-4	Bromodichloromethane	· ·	5.	ĬŬ
78-87-5	1,2-Dichloropropane	·	5.	IU
10061-01-5	cis-1,3-Dichloroprop	nene l	5. 5.	ĬŬ
79-01-6	Trichloroethene		5.	ΙŪ
124-48-1	Dibromochloromethane	······································	5.	ĮŪ
79-00-5	1,1,2-Trichloroethar	·——— I	5, 5,	•
71-43-2	Benzene	*G}	5.	l U
10061-02- 6	trans-1,3-Dichloropa	Copene !	5.	ĮŪ
75-25-2	Bromoform		5.	ΙÜ
	4-Methyl-2-pentanone		10.	ľŪ
591-78-6- -	2-Hexanone	<u> </u>	10.	ľŪ
127-18-4	Tetrachloroethene		5.	JU
79-34-5	1,1,2,2-Tetrachloroe	thane !	5.	ľŪ
108-88-3	Toluene	citattei	5.	ľŪ
108-90-7	Chlorobenzene		5.	Ü
100-41-4	Ethylbenzene	 ¦	5. 5.	I U
100-42-5	Styrene	<u>.</u> }	5.	Ü
133-02-7	(m+p)Xylene	· · · · · · · · · · · · · · · · · · ·	5. 5.	I U
~~~ ~~ /	( E ) W I TOUG	l	J	10

NYSDEC Sample No.: VBLK02

## 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10**145** Case No.: --

Matrix: (soil/water) WATER Sample wt/vol: 5.0 (g/ (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 0

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001

Lab Sample ID: BLK02 Lab File ID: >E3619

Date Received:

Date Analyzed: 02/09/93 Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	3 2 2 2 2 3 3 3 2 2 2 3 3 4 2 4 2 4 2 4			
2.				
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11.				
12.	44.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4			<del> </del>
13.	· · · · · · · · · · · · · · · · · · ·		<del>                                     </del>	<del> </del>
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FORM I VOA-TIC B-103

### 4B SEMIVOLATILE METHOD BLANK SUMMARY

Name: GENERAL TESTING Contract: DAY ENG.

ab File ID: >D9341 Lab Sample ID: BLK01

e Extracted 02/08/93 Extraction:(SepF/Cont/Sonc) SONC

Date Analyzed: 2/17/93 Time Analyzed: 10:11

Letrix: (soil/water) SOIL Level:(low/med) LOW

trument ID: MS#4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	•			<del></del> `
	EPA	LAB	LAB	DATE
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
01	SBLK01MS	REF01	>D9342	2/17/93 1
02	DA001	R93/606-1	>D9343	2/17/93
03		R93/606-1MS	>D9344	2/17/93
04		R93/606-1MSD	>D9345	2/17/93 1
05	•	1	<u> </u>	ll
06		1		11
07		1	l	1
08	1	1	l	
09		1	l	1
10		l	l	
11			l	l!
12	l		1	
13		l	l	
14		l	l	
15		1	1	
16		l	l	II
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18		I	l	
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MMENTS:	

EPA SAMPLE NO.

SBLK01

ab Name: GENERAL TESTING

Contract: DAY ENG.

atrix: (soil/water) SOIL Lab Sample ID: BLK01

ple wt/vol: 30 (q/mL) G Lab File ID: >D9341

rel: (low/med) LOW Date Received: --/--/--

Moisture: not dec.0.1 dec. --- Date Extracted:02/08/93

Cleanup: (Y/N) Y pH:--- Date Analyzed: 2/17/93

inal Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL) Conversion Factor: 1.0000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 0 ΙU 670. 108-95-2----Phenol 111-44-4-----bis(-2-Chloroethyl)Ether___! 670. lU 95-57-8----2-Chlorophenol_____ 670. IU ΙU 541-73-1----1,3-Dichlorobenzene_____ 670. 670. 1 U 95-50-1------1,2-Dichlorobenzene______ 670. 1 U 1 U 670. | 108-60-1----2,2'-oxybis(1-Chloropropane)| 670. JU 106-44-5----4-Methylphenol____ ΙU 670. | 621-64-7----N-Nitroso-Di-n-propylamine__! 670. 1 U 670. IU 670. 1 U 98-95-3----Nitrobenzene____ 78-59-1------Isophorone______| 670. IU 88-75-5----2-Nitrophenol_____ 670. ΙU | 105-67-9----2,4-Dimethylphenol_____ ΙU 670. | 111-91-1-----bis(-2-Chloroethoxy)Methane_i 670. 10 ΙU 670. 120-82-1----1,2,4-Trichlorobenzene_____ 670. IU | 91-20-3-----Naphthalene_ 670. ΙU IU 670. 87-68-3------Hexachlorobutadiene_____ 670. ΙU | 59-50-7----4-Chloro-3-methylphenol_____| 670. 1 U IU 670. 77-47-4----Hexachlorocyclopentadiene___i 670. 1 U | 88-06-2----2,4,6-Trichlorophenol_____! 670. IU 3300. IU 670. IU 3300. 10 | 131-11-3-----Dimethyl Phthalate_____ 670. IU IU 670. 208-96-8-----Acenaphthylene_____t | 606-20-2----2,6-Dinitrotoluene_____ 670. IU

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK01

ab Name: GENERAL TESTING

Contract: DAY ENG.

SAS No.: ---SDG No.: DA001 Code: 10145 Case No.: ---

4atrix: (soil/water) SOIL

Lab Sample ID: BLK01

Ample wt/vol:

Lab File ID: >D9341 30 (g/mL) G

vel: (low/me**d**) LOW Date Received: --/--/--

→ Moisture: not dec.0.1 dec. ---

Date Extracted: 02/08/93

Cleanup: (Y/N) Y pH:--- Date Analyzed: 2/17/93

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/KG

inal Extract Volume:1

(uL)

Dilution Factor: 1.00000

Q

Rjection Volume: 1

CAS NO.

(uL)

COMPOUND

Conversion Factor: 1.0000

3300. IU | 99-09-2----3-Nitroaniline_____ 670. | U | 83-32-9-----Acenaphthene___ | U 3300. IU 3300. 132-64-9-----Dibenzofuran______| 670. IU 670. IU IU 670. IU | 7005-72-3----4-Chlorophenyl-phenylether___i 670. | 86-73-7----Fluorene 100-01-6-----4-Nitroaniline_____ 670. ΙU 1 U 3300. | 534-52-1----4,6-Dinitro-2-methylphenol__| 3300. 1 U 670,  $186-30-6----N-Nitrosodiphenylamine (1)___1$ ΤU 1 101-55-3-----4-Bromophenyl-phenylether_____ 670. TU 670. ΙU 118-74-1-----Iexachlorobenzene____I 87-86-5----Pentachlorophenol____ 3300. ΙU 670. IU 85-01-8----Phenanthrene | 120-12-7----Anthracene_____| 670. ΙU 670. IU 86-74-8-----Carbazole__ 84-74-2-----Di-n-Butylphthalate_____ 77. IJB | 206-44-0----Fluoranthene____ 670. ΙU 129-00-0----Pyrene IU 670. 85-68-7----Butyl benzyl_phthalate____! 670. | U | 91-94-1----3,3'-Dichlorobenzidine_____| 1300. IU | 56-55-3------Benzo(a)Anthracene_____| 670. ΙU 218-01-9-----Chrysene _ ΙU 670. 117-81-7----Bis(2-Ethylhexyl)Phthalate__| 670. Į U | 117-84-0----Di-n-octyl_phthalate_____| 670. 1 U | 205-99-2----Benzo(b)fluoranthene_____| 670. IU 207-08-9----Benzo(k)Fluoranthene_____ IU 670. 670. IU 50-32-8-----Benzo(a)Pyrene____ | 193-39-5----Indeno(1,2,3-cd)Pyrene____| IU 670.

(1) - Cannot be separated from Diphenylamine

| 53-70-3-----Dibenz(a,h)anthracene_____|

| 191-24-2----Benzo(g,h,i)Perylene_____

10

IU

670.

670.

NYSDEC Sample No: SBLK01

## 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) SOIL Sample wt/vol: 30 (g/mL) G

Level (low/med): LOW

% Moisture: not dec. 0.1 dec. Extraction: (SepF/Cont/Sonc)SONC

GPC Cleanup (Y/N) Y pH

Number TIC's found: 7

Contract: DAY ENG.

SAS No.: -- SDG No.:DA001

Lab Sample ID: BLK01
Lab File ID: >D9341

Date Received:

Date Extracted: 02/08/93 Date Analyzed: 02/17/93 Dilution Factor: 1.0

Concentration Units: UG/KG

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	4.86	280	J
2.	Unknown	5.41	350	_JA
3.	Unknown	6,69	920	JA_
4.	Unknown	7.22	8900	JA_
5.	Unknown	8.78	320	JA_
6.	Unknown	9.60	440	JA_
7.	Unknown	10,68	440	J
8.				
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FORM I SV-TIC NYSDEC B-78

## BLANKS

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.: SDG No.: DA001

Preparation Blank Matrix (soil/water): SOIL

Analyte	Initial Calib. Blank (ug/L)	С			ing Calib ank (ug/L 2		ition 3	С	Prepa- ration Blank	С	М
Aluminum		_		_		_		_		_	
Antimony		_		_		_		_		=	
Arsenic	1.4	<u>U</u>	1.4	<u>U</u>	1.4	U	-2.0		-2.765	B	F P
Barium	1.1	<u>U</u>	1.3	<u>B</u>	1.1	U	1.6	<u>B</u>			P
Beryllium		_		_		_			1 200	=	<u> - </u>
Cadmium	1.8	<u>U</u>	1.8	<u>U</u>	1.8	<u>U</u>	1.8	<u>U</u>	1,800	Ц	P_
Calcium		-				-		=			1=-1
Chromium	1.9	꼬	3.1	<u>B</u>	2.9	<u>B</u>	3.0	В		-	P_
Cobalt		۰.		_	·	<u> </u>	·	-		<u>-</u> − ∤	
Copper		<b></b> .		_		<u> </u>				-	1
Iron	22.3		22.3	U	22.3	Ū	22.3	Ū	22,300	Ū.	$\left  \frac{1}{P} \right $
Lead		8		브.	44.5	υ.	64.5	4	42,300	ᅩᅥ	
Magnesium		-		-		-		-		<del>  -  </del>	
Manganese Mercury	0.1	<u>u</u>	0.1	Ū	0.1	Ū	0.1	Ū	0.100	ᄁ	CV
Nickel	<u>-</u>	ᆜ.	<u> </u>	브	<u></u>	1 5		=	0.100	3	124
Potassium		-		-		-		1-1		1-1	1
Selenium	2.0	Ū	2.0	Ū	2.0	Ū	2.0	Ū	2.000	ᄁ	F
Silver	3.8		3.8	Ü	4.0	B	3.8		3.800	Ü	E A
Sodium		5		_		1=	<u>3.0</u>	=		~	134-
Thallium		-		-	i	-		1-1		1-1	
Vanadium		-		1-		-		1-1		1-1	
Zinc		-		† —		1		1-1		1-1	
Cyanide	7.4	Ū	7.4	U	7.4	U	7.4	<u>u</u>	7.400	Ū	AS

BLANKS

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.: SDG No.: DA001

Preparation Blank Matrix (soil/water): SOIL

Analyte	Initial Calib. Blank (ug/L) C		Conti 1		ing Calib ank (ug/L 2			C	Prepa- ration Blank	С	М
Aluminum		_   `				_					
Antimony						[		_ [		l_1	11
Arsenic		_ ] .	-2.8	<u>B</u>		_				1_1	F
Barium		_ } .	1.3	<u>B</u>		_				1_1	<u>P</u>
Beryllium		_ ] .		_		_		_		_	1-1
Cadmium		_ ] .	1.8	<u>U</u>		_		_		1_1	P_
Calcium		_		_ :		_		_			
Chromium		_	2.9	<u>B</u>		_				1_1	<u>P</u>
Cobalt		_						_		1-1	
Copper		_						_	ļ		
Iron		_				_				1-1	
Lead			22.3	<u>U</u>					<u> </u>	1-1	P_
Magnesium_		-	<del></del>		·			-			
Manganese_		-						-1	\ <del></del>	$\{-\}$	
Mercury		-	<del></del>	-		_				1-1	
Nickel						_		$-\dagger$			<del></del>
Potassium		-		_		_		-		1-1	1=-1
Selenium		-}	2.0					$-\dagger$		1-1	F A
Silver	<del> </del>	-	4.0	<u>B</u>		_		-		1-1	Δ_
Sodium		∤		-		_	<u> </u>			1-1	
Thallium		∤		-	<del></del>	_	l	-		· <del> </del>	
<u>Vanadium</u>	·	-		<del> </del> —	ļ ————	_	<del></del>	-	<del></del>		
Zinc	.	∤		-		-			<u> </u>	1-1	1
Cyanide	.     .	_ 1	7.4	ΙŪ	7.4	<u>U</u>	7.4	<u>U</u>		.1_1	<u>\\ \D S   </u>

BLANKS

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.: SDG No.: DA001

Preparation Blank Matrix (soil/water): SOIL

Analyte	Initial Calib. Blank (ug/L)	С			ing Calib ank (ug/L 2				Prepa- ration Blank	С	М
Aluminum		$\overline{1}$				1		-  .			
Antimony		[ ]									
<u>Arsenic</u>				_ [		_[					
Barium		1_1		_		_		_		_	
Beryllium	<u> </u>	1_1		_		_		_		1_1	\
Cadmium		1_		_ ]		_		_		_	_
Calcium		-		_		_		_		1-1	\
Chromium	<del></del>	_		_		_		_		1-1	<b></b>
Cobalt		1_		_		_		_		1-1	_
Copper	l <u> </u>	-		_		_		_			
Iron	_ <del></del>	1-1		-		_		_	ļ	1-1	
Lead		-		_	<del></del>	_		_ ∤	ļ		1-
Magnesium_		-		_		_	ļ ——— ļ .	-		<b>  </b>	
<u>Manganese</u>		-		_	· ——			-		1-1	-
Mercury		1-1	·	_	· ———			-	· · · · · · · · · · · · · · · · · · ·	1-1	
Nickel				_	·	_				1-1	
Potassium		1-1		_	· <del></del>	_	<del></del>  -			<b>├</b>	
Selenium				_		_		-	ļ ————————————————————————————————————	1-1	-
Silver				-				-		<b>├</b> ─	\ <del>-</del>
Sodium		·				_	l ————————————————————————————————————	-}		1-	
Thallium		-	·	_	<del></del>	-	<del>   </del>	-		1-	-
<u>Vanadium</u>		· <del>   </del>		_		-	·			·   —	—
Zinc		·	7 4	<del></del>	7 4		<del> </del>			· ∤	A
Cyanide	l	. ــــ ا .	7.4	U	7.4	<u>U</u>		<b></b> ↓	<b>1</b>	ا ــــ ا .	

BLANKS

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.:

SDG No.: DA001

Preparation Blank Matrix (soil/water): SOIL

Analyte	Initial Calib. Blank (ug/L)	С			ing Calib ank (ug/I 2		ation 3	C	Prepa- ration Blank	C	М
Aluminum		_   -	l							Πİ	1
Antimony											
Arsenic											
Barium		_1		_					1.100	U	P
Beryllium										[ ]	
Cadmium				!						1_1	
Calcium		_				_		_		1_1	
Chromium		_		_		_		_	1.900	<u>u</u>	P
Cobalt		<u> </u> _ .				_		_		1_1	-
Copper						_		_		_	
Iron		<u>-</u>  .				_		_		1-1	
Lead			<del></del> :			_		_			\
Magnesium						_	ļ ———	<b> </b> _			<b> </b>
Manganese				_	·	-		_		1-1	
Mercury		-1		_		_				1-	
Nickel		-		_		-		_		-	
Potassium		-	<del></del> ,	_		_		<del> </del> _			
Selenium		_	<del></del>	_	<del></del>	_	·	1_1		1-1	
Silver			<del></del>	_		<b> </b> _		<b>↓</b> _↓		1-1	.
Sodium				-	<del></del>	-	ļ	<b> </b> —	ļ <del></del>	-	·
Thallium				-		-				·	·
Vanadium		-		<del> </del> —		-		-		· <del> </del> —	.
Zinc				_	ļ	-		-		.	
Cyanide		1_1		l		1_		1_1		. [ _ [	l I

#### 8A VOLATILE INTERNAL STANDARD AREA SUMMARY

Name: GENERAL TESTING Contract: DAY ENG.

ab File ID (Standard): >A8889

Date Analyzed: 2/10/93

trument ID: MS#1

Time Analyzed: 12:01

atrix:(soil/water) SOIL Level:(low/med) LOW Column:(pack/cap) CAP

- ·		IS1(BCM)		IS2(DFB)		IS3(CBZ)	
١	ļ	AREA #	RT	AREA #1	RT	AREA #1	RT
	12 HOUR STD	82637.	11.21	321375.	13.33	282628.	20.30
	=======================================		=====		======		*************
	UPPER LIMIT	165274.		642750.	,	565256.	
-	LOWER LIMIT	41319.	, , , , , , ,	160688.		141314.	
ľ						*****	
	EPA SAMPLE NO.	] 1	i t	 	 	 	
			****			****	3 3 3 5 F F F
01	VBLK01	79344.	11.25	331632.	13.36	285570.	20.31
	VBLK01MS	78505.	11.24	305768.	13.36		20.32
_03	DA001	69040.	1 11.24	299346.	13.36		20.33
04	DA001MS	68677.	11.25		13.36		20.34
05	DA001MSD	67187.	111.26		13.37		20,33
06	DA001DL	70234.	1 11.22	316480.	13.33	257233.	20.30
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IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk

ge 1 of 1

#### **A**8 VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: GENERAL TESTING Contract: DAY ENG.

Tab File ID (Standard): >E3618 Date Analyzed: 2/09/93

trument ID: MS5 Time Analyzed: 9:31

rix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

	·	L TC1 (DCM)		1 100/000		1 702/002	
		IS1(BCM)	, p.m.	IS2(DFB)		IS3(CBZ)	
		AREA #		AREA #		AREA #	RT
	12 HOUR STD	•	10.35	1	12.01	240250	
				•			18.39
	UPPER LIMIT	181130.	,	750552.		638716.	
	Office Diller	•				1 030/10.	======
	LOWER LIMIT	45283.	· · · · · · · · · · · · · · · · · · ·	187638.		159679.	
			*****	33033#3335	333333	***********	
	EPA SAMPLE	l		l	1	1	
	NO.			1	i	]	
		=======================================	=====		=====		
	VBLK02  DA002	86337.					•
03		74919.	10.31	310199.	12.00	345429.	18.48
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21		1	! ————. I	1	!	1	
22			·		! ————— 	1	l

IS1 (BCM) = Bromochloromethane IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk 1 of 1

#### 8B SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

- b Name: GENERAL TESTING

Contract: DAY ENG.

ab File ID (Standard): >D9340

Date Analyzed: 2/17/93

trument ID: MS#4

Time Analyzed: 8:52

I	·	IS1(DCB)		IS2(NPT)	1	IS3(ANT)	
Ì	j	AREA #	RT	AREA #	RT	AREA #	RT
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1	=========	***********	366333		****		22223
	EPA SAMPLE			1	1		
	NO.	1	( 	 	 	 	 
∩ <b>1</b>	SBLK01	33410.	11.00	142677.	14.46	78768.	19,58
	SBLK01MS	26649.	11.00	•	14.47	•	19.57
	DA001	30534.	11.00	•	14.46		19.57
04	DA001MS	28115.	11.00		14.47	67151.	19,58
	DA001MSD	26366.	11.00	114735.	14.47	62422.	19.57
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21	• 44				<u> </u>	ļ	
22		l	.	·	.	I	·

IS1 (DCB) = 1,4-Dichlorobenzene-d4 UPPER LIMIT = + 100%

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d8

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk

1 of 1

#### 8C SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

-Lab Name: GENERAL TESTING

Contract: DAY ENG.

Lab File ID (Standard): >D9340

Date Analyzed: 2/17/93

Astrument ID: MS#4

Time Analyzed: 8:52

 	IS4(PHN)   AREA #	RT	IS5(CRY)   AREA #	   RT	IS6(PRY)   AREA #	RT
	109538.	23.97	103160.	. a n n = ∞ = ∤ ! 31 65	88843.	37.68
12 HOUR <b>S</b> TD   ===================================	109330.					
UPPER LIMIT	219076.		206320.		<b>17768</b> 6.	
	· · · · · · · · · · · · · · · · · · ·		51580.	<b>     </b>	44421.	, ,, ,, <b>,</b> , , , , , , , , , , , , , ,
LOWER LIMIT	54769.			 ! <del></del> '		
========    EPA SAMP <b>L</b> E		= = = = =   	, <b></b> 	<b>9</b>		) 
NO.	•			Ì	]	
====================================				=====	*****	=====
SBLK01	140989.	23.97	138056.	31,64	114054.	37.6
SBLK01MS	115592.	23.96	108781.	31.63	89108.	37.6
DA001	127064.	23.96	121527.	31,63	101673.	37.6
DA001MS	121580.	23.97	112828.	31.63	94328.	37.6
DA001MSD	111598.	23.97	103615.	31.63	86817.	37.6
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<u> </u>	1	.	.	. ! <del></del>	· ' <del></del>	1

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk

page 1 of 1

# APPENDIX F SAMPLE DATA SUMMARY PACKAGE (GROUND WATER)



Job #: R93/0798

#### SAMPLE DATA SUMMARY PACKAGE

SECTION A: SDG Narrative

SECTION B: Sample Data

SECTION C: Surrogate Summary

SECTION D: MS/MSD

SECTION E: Blank Data



#### A Full Service Environmental Laboratory

March 24, 1993

Mr. Rick Crouch
Day Engineering
2144 Brighton-Henrietta TL Rd.
Rochester, NY 14623

Re: Strippit, Inc. GTC# R93/798

Dear Mr. Crouch:

Enclosed the analytical data report for the above referenced samples. A total of 13 waters were received on February 25, 1993 and analyzed according to ASPB 1989 protocol which specifies SW846 methodologies. Six waters samples were analyzed for Volatile and Semivolatile Organics, Total Cyanide and a specific list of total metals. Six field-filtered samples were analyzed for a specific list of soluble metals. The Trip Blank was analyzed for Volatile Organics only.

This package includes the Sample Data Package and Sample Data Summary Package as per  $\lambda$ SPB reporting specifications. Quality Control Data is included for two (2) sample locations.

We trust you will find all in order. Please contact me should you have questions regarding this information. Thank you for allowing us to provide this service.

Sincerely, GENERAL TESTING CORPORATION

Kow Burker

Karen Bunker Customer Service Representative

Enc.

kb

#### INORGANICS QUALIFIERS - 1989

- C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but was greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.
- Q qualifier -- Specified entries and their meanings are as follows:
  - E The reported value is estimated because of the presence of interaference.
  - M Duplicate injection precision not met.
  - N Spiked sample recovery not within control limits.
  - S The reported value was determined by the Method of Standard Additions (MSA).
  - W Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
  - * Duplicate analysis not within control limits.
  - + Correlation coefficient for the MSA is less than 0.995.
- M (Method) qualifier -- Enter:
  - "P" for ICP
    - "A" for Plame AA
  - "F" for Furnace AA
  - "CV" for Manual Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - "NR" if the analyte is not required to be analyzed.

#### ORGANICS QUALIFIERS - 1989

- U Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture.
- J Indicates an estimated value. The flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result isless than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and ALL concentration values reported on that Form I are flagged with the "D" flag.
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- X As specified in Case Narrative.

B-85



Job #: <u>R93/0798</u>

SECTION A

SDG NARRATIVE

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab	Name:	GENERAL	TESTING CO	ORP.	Cont	ract: DAY EN	G.		
Lab	Code:	10145	Case	No.:	SAS	No.:	SDG	No.:	WG001
SOW	No.:	7/88							
Were	e ICP	inte <b>r</b> ele back <b>g</b> row	und correct	ections applied ions applied generated be	?	Lab Sample  798-1  798-1D  798-1S  798-2  798-3  798-4  798-5  798-6  798-8  798-8  798-8  798-9  798-10  798-11  798-12  798-13		Yes/No	
l				generated be ound correction				Yes/N	о ио
Com	ments:							,	
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COVER PAGE - IN

#### SDG NARRATIVE

DAY ENGINEERING

GTC# R93/0798

#### Volatile Organics

Seven (7) water samples were analyzed for target compound list volatile organics by EPA method 8240 with NYSDEC 1989 ASPB reportables. The following were included in SDG# WG001:

EPA Sample #	GTC Sample #
WG <b>0</b> 01	R93/0798-1
WG <b>0</b> 02	-2
WG <b>0</b> 03	-3
WG <b>0</b> 04	-4
WG <b>0</b> 05	<b>-</b> 5
WG <b>0</b> 06	<b>-</b> 6
WG <b>0</b> 07	<del>-</del> 7
VB <b>L</b> K <b>0</b> 1	BLK01
VBLK01MS	REFO1
WG <b>0</b> 01MS	R93/798-1MS
WG001MSD	-1MSD

No analytical or QC problems were encountered during the analysis of these samples.

#### Semivolatile Organics

Six (6) water samples were analyzed for target compound list semivolatile organics by EPA method 8240 with NYSDEC 1989 ASPB reportables. The following were included in SDG# WG001:

EPA Sample #	GTC Sample #
WG001	R93/798-1
WG002	-2
WG003	<b>~</b> 3
WG004	-4
WG005	<b>-</b> 5
WG006	-6
SBLK01	BLK01
SBLK01MS	REFO1
WG001MS	R93/798-1MS
WG001MSD	-1MSD

Page 2 Day Engineering

No analytical or QC problems were encountered during the analysis of these samples.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Michael K. Perry

Laboratory Director

#### COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

ļ		Č	OVER THOS	INORGINATO I				_		
Lab	Name:	GENERAL	TESTING C	ORP.	Conti	cact:	DAY EN	<b>3</b> .		
Lab	Code:	10145	Case	No.:	SAS 1	ov		SDG	No.:	WG001
sow	No.:	7/8 <b>8</b>								
		·	Sample No. WG001 D WG001 S WG002 WG003 WG004 WG005 WG006 WG008 D WG008 D WG008 S WG009 WG010 WG011 WG012 WG013			798 798 798 798 799 799 799 799 799 799	Sample 8-1 8-1D 8-1S 8-2 8-3 8-4 8-5 8-6 8-8 8-8D 8-8S 8-9 8-10 8-11 8-12 8-13	ID.		
Were	e ICP	interel	ement corre	ections appli	ed?				Yes/N	o ye
Wer				tions applied generated be					Yes/N	o YE
				ound correcti					Yes/N	ю по
Com	ments:									
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Job #: R93/0798

SECTION B

SAMPLE DATA

### VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| WG001

hab Name: GENERAL TESTING Contract: DAY ENG.

fatrix: (soil/water) WATER

mple wt/vol: 5.0 (g/mL) ML

Lab File ID: >E3794

Lavel: (low/med) LOW

Date Received: 02/25/93

Lab Sample ID: R93/798-1

Moisture: not dec.100

Date Analyzed: 3/01/93

lumn: (pack/cap) CAP

Dilution Factor: 1.00000

'inal extract Volume: -- (uL)

Conversion Factor: 1.0000

iquot Volume: -- (uL)

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

CAS NO.		or ug/Kg) UG/L	Q
		!	
74-87-3	Chloromethane		IU I
74-83-9	Bromomethane	1 10.	ĮU Į
75-01-4	Vinyl Chloride	1 0.	[U [
75-00-3	Chloroethane		IU I
75-09-2	Methylene_Chloride	1 5.	In I
67-64-1	Acetone	1 10.	ו טו
	Carbon disulfide		U
	1,1-Dichloroethene		1 U I
75-34-3	1,1-Dichloroethane	5.	U
	trans-1,2-Dichloroether		[U ]
156-59-2	cis-1,2-Dichloroethene_	1 5.	IU I
1 67-66-3	Chloroform_	1 5.	[U
107-02-2	1,2-Dichloroethane	1 5.	[U
1 78-93-3	2-Butanone	1 10.	ĮŲ
71-55-6	1,1,1-Trichloroethane_	1 5.	ĮU
1 56-23-5	Carbon Tetrachloride	1 5,	Ü
75-27-4	Bromodichloromethane		ĬŪ
78-87-5	1,2-Dichloropropane		ĮŪ
1 10061-01 <b>-5</b> -	cis-1,3-Dichloropropend	e1 5.	iŪ
79-01-6	Trichloroethene		įŪ
124-48-1	Dibromochloromethane		បែ
79-00-5	1,1,2-Trichloroethane_		Ü
71-43-2	Benzene	5.	įŭ
1 10061-02-6-	trans-1,3-Dichloroprop	ene! 5.	įŪ
75-25-2- <del></del> -	Bromoform	1 5.	ĬŬ
	4-Methyl-2-pentanone		ĺŬ
	2-Hexanone		เบ้
1 127-18-4	Tetrachloroethene	5.	ĬŬ
79-34-5	1,1,2,2-Tetrachloroeth	anei 5.	ĺΰ
108-88-3 <del></del> -	Toluene		ĺŬ
	Chlorobenzene		ľŪ
1 100-30-7	Ethylbenzene		] U
1 100-41-4	Stureno	f 5.	•
1 122 02 7	Styrene	5.	Įυ
1 133-02-/	(m+p)Xylene		Įυ
1 133-02-/	o-Xylene	5.	្រ
l		ļ	

NYSDEC Sample No.: WG001

# 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample ID: R93/798-1

Lab File ID: >E3794
Date Received: 02/25/93
Date Analyzed: 03/01/93

Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	U <b>n</b> known	7.45	30	J
2.	Unknown	7.74	55	J
3.				
4,				
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30.				

FORM I VOA-TIC B-103

#### 1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Name: GENERAL TESTING Contract: DAY ENG.

WG002

Lab Sample ID: R93/798-2

latrix: (soil/water) WATER

ple wt/vol: 5.0 (g/mL) ML

Lab File ID: >E3797

∴evel: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec.100

Date Analyzed: 3/01/93

Lumn: (pack/cap) CAP

Dilution Factor: 1.00000

'inal extract Volume: -- (uL)

Conversion Factor: 1.0000

iquot Volume: -- (uL)

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

74-87-3	CAS NO.	COMPOUND (ug/L or u	ıg/Kg) UG/L	Q
74-83-9Bromomethane         10.   U           75-01-4	71-97-3	Chloromathana	10	1
75-01-4				*
75-00-3				
75-09-2				•
67-64-1				
75-15-0				1
75-35-4	75 45 0	Carbon digulfide	1	1 5 7
75-34-31,1-Dichloroethane       5.  U         156-60-5trans-1,2-Dichloroethene       5.  U         156-59-2cis-1,2-Dichloroethene       5.  U         167-66-3				
156-60-5trans-1,2-Dichloroethene       5.   U         156-59-2cis-1,2-Dichloroethene       5.   U         67-66-3				
156-59-2				1
67-66-3				, -
107-02-21,2-Dichloroethane       5.   U         78-93-32-Butanone       10.   U         71-55-61,1,1-Trichloroethane       5.   U         56-23-5Carbon Tetrachloride       5.   U         75-27-4Bromodichloromethane       5.   U         78-87-51,2-Dichloropropane       5.   U         10061-01-5cis-1,3-Dichloropropene       5.   U         179-01-6Trichloroethene       5.   U         124-48-1Dibromochloromethane       5.   U         179-00-51,1,2-Trichloroethane       5.   U         10061-02-6trans-1,3-Dichloropropene       5.   U         10061-02-6trans-1,3-Dichloropropene       5.   U         108-10-1				•
78-93-32-Butanone       10.   U         71-55-61,1,1-Trichloroethane       5.   U         56-23-5Carbon Tetrachloride       5.   U         75-27-4Bromodichloromethane       5.   U         78-87-51,2-Dichloropropane       5.   U         10061-01-5cis-1,3-Dichloropropene       5.   U         79-01-6Trichloroethene       5.   U         124-48-1Dibromochloromethane       5.   U         79-00-51,1,2-Trichloroethane       5.   U         71-43-2Benzene       5.   U         10061-02-6trans-1,3-Dichloropropene       5.   U         75-25-2Bromoform       5.   U         108-10-1				•
71-55-61,1,1-Trichloroethane       5.   U         56-23-5Carbon Tetrachloride       5.   U         75-27-4Bromodichloromethane       5.   U         78-87-51,2-Dichloropropane       5.   U         10061-01-5is-1,3-Dichloropropene       5.   U         79-01-6Trichloroethene       5.   U         124-48-1Dibromochloromethane       5.   U         79-00-51,1,2-Trichloroethane       5.   U         71-43-2Benzene       5.   U         10061-02-6trans-1,3-Dichloropropene       5.   U         75-25-2Bromoform       5.   U         108-10-1				•
56-23-5				•
75-27-4		· ·		•
78-87-51, 2-Dichloropropane       5.  U         10061-01-5cis+1, 3-Dichloropropene       5.  U         79-01-6Trichloroethene       5.  U         124-48-1Dibromochloromethane       5.  U         79-00-51, 1, 2-Trichloroethane       5.  U         71-43-2Benzene       5.  U         10061-02-6trans-1, 3-Dichloropropene       5.  U         75-25-2Bromoform       5.  U         108-10-14-Methyl-2-pentanone       10.  U         591-78-62-Hexanone       10.  U         127-18-4Tetrachloroethene       5.  U         79-34-51, 1, 2, 2-Tetrachloroethane       5.  U         108-88-3				
10061-01-5cis-1,3-Dichloropropene       5.  U         79-01-6Trichloroethene       5.  U         124-48-1Dibromochloromethane       5.  U         79-00-51,1,2-Trichloroethane       5.  U         71-43-2Benzene       5.  U         10061-02-6trans-1,3-Dichloropropene       5.  U         75-25-2Bromoform       5.  U         108-10-14-Methyl-2-pentanone       10.  U         591-78-62-Hexanone				
79-01-6				•
124-48-1				U
79-00-51,1,2-Trichloroethane       5.  U         71-43-2Benzene       5.  U         10061-02-6trans-1,3-Dichloropropene       5.  U         75-25-2Bromoform       5.  U         108-10-14-Methyl-2-pentanone       10.  U         591-78-62-Hexanone       10.  U         127-18-4Tetrachloroethene       5.  U         79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U	79-01-6- <del></del>	Trichloroethene	5,	↓ U
71-43-2				ĮŪ
10061-02-6trans-1,3-Dichloropropene       5.  U         75-25-2Bromoform       5.  U         108-10-14-Methyl-2-pentanone       10.  U         591-78-62-Hexanone       10.  U         127-18-4Tetrachloroethene       5.  U         79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene       5.  U         108-90-7Chlorobenzene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U	79-00-5- <del></del>	1,1,2-Trichloroethane	5.	] U
75-25-2Bromoform       5.  U         108-10-14-Methyl-2-pentanone       10.  U         591-78-62-Hexanone       10.  U         127-18-4Tetrachloroethene       5.  U         79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene       5.  U         108-90-7Chlorobenzene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U	71-43-2	- <del>-</del> Benzene	<u> </u>	JU
108-10-14-Methyl-2-pentanone       10.   U         591-78-62-Hexanone       10.   U         127-18-4Tetrachloroethene       5.   U         79-34-51,1,2,2-Tetrachloroethane       5.   U         108-88-3Toluene       5.   U         108-90-7Chlorobenzene       5.   U         100-41-4Ethylbenzene       5.   U         100-42-5Styrene       5.   U         133-02-7(m+p)Xylene       5.   U				JU
591-78-62-Hexanone       10.   U         127-18-4Tetrachloroethene       5.   U         79-34-51,1,2,2-Tetrachloroethane       5.   U         108-88-3Toluene       5.   U         108-90-7Chlorobenzene       5.   U         100-41-4Ethylbenzene       5.   U         100-42-5Styrene       5.   U         133-02-7(m+p)Xylene       5.   U	75-25-2	Bromoform	1 5.	Įυ
127-18-4Tetrachloroethene       5.  U         79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene         5.  U         108-90-7Chlorobenzene         5.  U         100-41-4Ethylbenzene         5.  U         100-42-5Styrene         5.  U         133-02-7(m+p)Xylene         5.  U	108-10-1	4-Methyl-2-pentanone	1 10.	Įΰ
127-18-4Tetrachloroethene       5.  U         79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene         5.  U         108-90-7Chlorobenzene         5.  U         100-41-4Ethylbenzene         5.  U         100-42-5Styrene         5.  U         133-02-7(m+p)Xylene         5.  U	591-78-6	2-Hexanone	10,	ΙU
79-34-51,1,2,2-Tetrachloroethane       5.  U         108-88-3Toluene       5.  U         108-90-7Chlorobenzene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U	127-18-4	Tetrachloroethene	<b> </b> 5.	Įυ
108-88-3Toluene       5.  U         108-90-7Chlorobenzene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U				ΙU
108-90-7Chlorobenzene       5.  U         100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U				ĬŪ
100-41-4Ethylbenzene       5.  U         100-42-5Styrene       5.  U         133-02-7(m+p)Xylene       5.  U				
100-42-5				-
133-02-7(m+p)Xylene 5.  U				•
				•
			5.	ĺΰ

NYSDEC Sample No.: WG002

## 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --Matrix: (soil/water) WATER

Matrix: (soil/water) WATER Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 5

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001 Lab Sample ID: R93/798-2

Lab File ID: >E3797
Date Received: 02/25/93
Date Analyzed: 03/01/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,, ,,,							
CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q			
1.	U <b>n</b> known	4,56	29	JВ			
2.	Unknown	7.39	15	J			
3.	Unknown	7.71	11	J			
4.	Unknown	20.11	9.0	J			
5.	Unknown	24.43	9.0	J			
6.		7.1.2.4					
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FORM I VOA-TIC B-103

#### 1 A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| WG003

.ab Name: GENERAL TESTING Contract: DAY ENG.

latrix: (soil/water) WATER

Lab Sample ID: R93/798-3

mple wt/vol: 5.0 (g/mL) ML Lab File ID: >E3798

el: (low/med) LOW

Date Received: 02/25/93

"Moisture: not dec.100

Date Analyzed: 3/01/93

_umn: (pack/cap) CAP

Dilution Factor: 1.00000

inal extract Volume: -- (uL)

Conversion Factor: 1.0000

Aquot Volume: -- (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or u	ıg/Kg) UG/L	Q
			1
	Chloromethane		ΙU
	Bromomethane		U
	Vinyl Chloride		U
75-00-3	Chloroethane	10.	Įυ
75-09-2	Methylene_Chloride	! 5.	Įυ
67-64-1	Acetone	10.	ΙU
75-15-0 <del>-</del>	Carbon disulfide	! 5.	ĮŪ
	1,1-Dichloroethene		ΙŪ
	1,1-Dichloroethane		ΙŪ
	trans-1,2-Dichloroethene		ľŪ
	cis-1,2-Dichloroethene		ΙŪ
67-66-3	Chloroform_	5.	Įυ
	1,2-Dichloroethane		ΙU
	2-Butanone		ΙU
	1,1,1-Trichloroethane		ĮU
	Carbon Tetrachloride		ΙU
75-27-4	Bromodichloromethane	<b>i</b> 5.	l U
78-87-5	1,2-Dichloropropane		IU
10061-01-5	cis-1,3-Dichloropropene	{}} 5.	ΙU
79-01-6	Trichloroethene	5.	ΙU
124-48-1	Dibromochloromethane	i 5.	Įυ
79-00-5	1,1,2-Trichloroethane	1 5.	U
	Benzene		ΙU
10061-02-6	trans-1,3-Dichloropropene_	i 5.	ΙU
75-25-2	Bromoform	1 5.	U
	4-Methyl-2-pentanone		JU
	2-Hexanone		Įυ
127-18-4	Tetrachloroethene		U
	1,1,2,2-Tetrachloroethane_		U
	Toluene		ΙU
	Chlorobenzene		įυ
	Ethylbenzene		ĬŪ
	Styrene		įU
	(m+p)Xylene		įυ
133-02-7		5.	ίŪ

NYSDEC Sample No.: WG003

# 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.
Lab Code: 10145 Case No.: -Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 1

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001 Lab Sample ID: R93/798-3

Lab File ID: >E3798
Date Received: 02/25/93
Date Analyzed: 03/01/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

LOSC NUMBED	COMPOUND NAME	RT	EST.CONC.	Q
	Unknown	7.74	6.0	J
2.	× MANY !/M			
3.		<u> </u>		
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FORM I VOA-TIC B-103

NYSDEC Sample No.: WG004

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## 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS Contract: DAY ENG. Lab Name: General Testing Corp. SAS No.: -- SDG No.:WG001 Lab Code: 10145 Case No.: --Lab Sample ID: R93/798-4 Matrix: (soil/water) WATER Lab File ID: >E3799 Sample wt/vol: 5.0 (g/mL)ML Date Received: 02/25/93 1A EPA SAMPLE NO. VOLATILE ORGANICS ANALYSIS DATA SHEET WG004 Name:GENERAL TESTING Contract: DAY ENG. ab Code: 10145 Case No.: --- SAS No.: ---SDG No.: WG001 1atrix: (soil/water) WATER Lab Sample ID: R93/798-4 mple wt/vol: 5.0 (g/mL) ML Lab File ID: >E3799 evel: (low/med) LOW Date Received: 02/25/93 oisture: not dec.100 Date Analyzed: 3/01/93 lumn: (pack/cap) CAP Dilution Factor: 1.00000 Mal extract Volume: --(uL) Conversion Factor: 1.0000 quot Volume: --(uL) CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 74-87-3-----Chloromethane____ 74-83-9----Bromomethane_____ 10. †U 10. 1 U 75-00-3-----Chloroethane_____ 10. 1U 75-09-2----Methylene_Chloride____ 10. 1 U | 67-64-1-----Acetone__ 5. Į U 10. Į U 5, 5. 156-60-5----trans-1,2-Dichloroethene____ IU | 156-59-2----cis-1,2-Dichloroethene_____| 5. 1U | 67-66-3-----Chloroform____ 1U | 107-02-2----1,2-Dichloroethane_____ 5. 1U | 78-93-3-----2-Butanone__ 5. Į U

71-55-6----1,1,1-Trichloroethane_____

56-23-5-------Carbon Tetrachloride_____

75-27-4----Bromodichloromethane_____

78-87-5----1,2-Dichloropropane_____

10061-01-5----cis-1,3-Dichloropropene____

124-48-1------Dibromochloromethane_____

79-00-5-----1,1,2-Trichloroethane

Hab Name: GENERAL TESTING Contract: DAY ENG. WG005

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

Lab Sample ID: R93/798-5

imple wt/vol: 5.0 (g/mL) ML

Lab File ID: >E3800

Level: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec.100

Date Analyzed: 3/01/93

lumn: (pack/cap) CAP

Dilution Factor: 1,00000

Final extract Volume: -- (uL)

Conversion Factor: 1.0000

iquot Volume: -- (uL)

CAS NO.	COMPOUND		RATION UI r ug/Kg)		Q	
74-87-3	Chloromethane_		!		ļ	
74-83-9	Bromomethane	<del></del>	!	10.	, -	
75-01-4	Vinyl Chloride_		!	10,	, -	
75-00-3	Chloroethane	<del></del>	ł	10.	-	
/3-03-2	Methylana Chlar	~i ~i ~		10.		
67-64-1	Acetone	. rue	<u>†</u>	5.	İΠ	
75-15-0	Carbon disulfic	30	<del> </del>	30.	1	
75-35-4	1,1-Dichloroeth	1670	<u>+</u>	5.	ΙÜ	
75-34-3	1,1-Dichloroeth	1270		5.		
156-60-5	trans-1,2-Dichl	oreathers	!	5.		
156-59-2	cis-1,2-Dichlor	corbetnene	<u> </u>	5.		
67-66-3	Chloroform	cetnene	!	4.	ļĴ	
107-02-2	1,2-Dichloroeth			5.	ļυ	
78-93-3	2-Butanone	lane	!	5.	ΙU	
71-55-6	1,1,1-Trichloro		<u>+</u>	10.	ΙU	
56-23-5	Carbon Tetrachl	ethane	!	5.	ĮŪ	
75-27-4	Bromodichlorome	oride	<u>!</u>	5.	ΙU	
78-87-5	1,2-Dichloropro	cnane	!	5.	ţU	
10061-01-5	cis-1,3-Dichlor	pane	!	5.	ΙU	
79-01-6	Trichloroethene	obrobese_	<u> </u>	5	ļυ	
124-48-1	Dibromochlorome	<u></u>		5.	ļυ	
79-00-5	1,1,2-Trichloro	tnane	!	5,	1 U	
71-43-2	Benzene	etnane	<u> </u>	5.	Įυ	
10061-02-6	trans-1,3-Dichl	OFORTAL	<del> </del>	5.	İΠ	
75-25-2	Bromoform_	orobroben	B	5.	Į U	
108-10-1	4-Methyl-2-pent		<u>+</u>	5.	ţU	
591-78-6	2-Hexanone	anone	!	10.	ļΠ	
127-18-4	Tetrachloroethe		<u>+</u>	10.	ļU	
79-34-5	1ecrachioroethe	ne	!	5,	ļU	
108-88-3	1,1,2,2-Tetrach	roroethane	<b>∍</b> !	5.	ļΰ	
108-90-7	Chlorobenzene		!	5.	ΙU	
100-41-4	Ethylbenzene		!	5.	Į U	
100-42-5	Styrenzene		!	5.	ļΰ	
133-02-7	Styrene		<u>+</u>	5,	ΙU	
133-02-7	(m+p)Xylene		<u>+</u>	5,	↓U	
200 02-7	o-vareue			5.	ΙU	- 1

NYSDEC Sample No.: WG005

# 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.
Lab Code: 10145 Case No.: -Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW
% Moisture: not dec. 100
Column (pack/cap): CAP

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001 Lab Sample ID: R93/798-5

Lab File ID: >E3800
Date Received: 02/25/93
Date Analyzed: 03/01/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAC MIMBED	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	7.42	9,0	J
2.	Unknown	7.74	13	J
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FORM I VOA-TIC B-103

| WG006

Lab Name: GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

CONCENTRATION UNITS:

Matrix: (soil/water) WATER

Lab Sample ID: R93/798-6

Lab File ID: >E3801

mple wt/vol: 5.0 (g/mL) ML Level: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec.100

Date Analyzed: 3/01/93

Lumn: (pack/cap) CAP

Dilution Factor: 1,00000

Final extract Volume: -- (uL)

Conversion Factor: 1,0000

iquot Volume: -- (uL)

CAS NO.		g/L or ug/Kg		Q	
1 74 97 2		1		'	<u> </u>
1 74-07-3- <del></del>	Chloromethane		10.	1 U	1
1 75 01 4	Bromomethane		10.	l U	1
/5-01-4	Vinyl Chloride		10.	ŢÜ	j
1 75-00-3- <del></del>	Chloroethane		10.	Į U	I
/5-09-2- <del></del> -	Methylene_Chloride_		5.	ļυ	- 1
.0/-04-1   75 15 0	Acetone		10.	ŢΟ	- 1
/5-15-0	Carbon disulfide		5.	ΙU	}
/5-35-4	1,1-Dichloroethene_	I	5.	ļυ	- 1
/5-34-3	1,1-Dichloroethane_		5.	ΙU	
156-60-5	trans-1,2-Dichloroe	thene	5,	ĮŪ	}
156-59-2	cis-1,2-Dichloroeth	ene	5.	ļυ	1
6/-66-3- <del></del> -	Chloroform	1	5.	Įυ	ĺ
107-02-2- <b></b>	1.2-Dichloroethane	t	5.	ĺυ	Ĺ
78-93-3- <del></del>	2-Butanone	1	10.	ĬU	į
/1-22-6 <del>-</del>	1,1,1-Trichloroetha	ne l	5.	ĬU	i
56-23-5- <del></del>	Carbon Tetrachlorid	e i	5.	ΙŪ	i
/5-2/-4- <del>-</del>	Bromodichloromethan	e 1	5.	ĺΰ	i
/8-87-5	1,2-Dichloropropane	ŧ	5.	ĬŪ	i
10061-01- <b>5</b> - <b>-</b>	cis-1.3-Dichloropro	pene I	5.	Ū	i
79-01-6 <del>-</del>	Trichloroethene	t	5.	ΙŪ	i
124-48-1	Dibromochloromethan	a 1	5.	Ü	i i
/9-00-5 <b></b>	1,1,2-Trichloroetha	ne	5.	ĬŪ	i
/ 1 - 4 3 - 2	benzene	1	5.	ίΰ	i
10061-02 <b>-6</b>	trans-1,3-Dichlorop	ropene	5,	įυ	i
/5-25-2	Bromoform	<b>!</b>	5	įυ	i
108-10-1- <del>-</del>	6-Methvl-2-pentanon	e t	4.0	ĬŪ	í
591-/8-6- <del>-</del>	2-Hexanone	ł	1.0	iυ	i
12/-18-4	Tetrachloroethene		5.	Įΰ	;
. /9-34-5 <del>-</del>	1,1,2,2-Tetrachloro	ethane 1	5,	ίŪ	1
108-88-3	Toluene	1	5.	יט	1
108-90-/	Chlorobenzene	t	5.	10	ı I
100-41-4	Ethylbenzene	ŧ	5.	ĵΩ	 
100-42-5	Styrene	1	5. 5.	ĬŪ	1
133-02-7	(m+p)Xylene	<del> </del>	5.	10	1
133-02-7	o-Xylene	<del></del>	5.	U	1
	<b>→</b>		J.	10	! !

NYSDEC Sample No.: WG006

## 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

* Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001 Lab Sample ID: R93/798-6

Lab File ID: >E3801
Date Received: 02/25/93
Date Analyzed: 03/01/93
Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	7,39	23	J
2.	Unknown	7.71	41	J
3.				[
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FORM I VOA-TIC B-103

#### 1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| WG007

mab Name: GENERAL TESTING

Contract: DAY ENG.

CONCENTRATION UNITS:

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER Lab Sample ID: R93/798-7

mple wt/vol: 5.0 (g/mL) ML Lab File ID: >E3793

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec.100 Date Analyzed: 3/01/93

lumn: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

iquot Volume: -- (uL)

CAS NO.	COMPOUND (u	g/L or ug/Kg)	UG/L	Q
74 07 2		l		
74-8/-3	Chloromethane		10.	1 U
/4-83-9	Bromomethane		10.	ΙU
75-01-4	Vinyl Chloride		10.	ΙU
75-00-3	Chloroethane	!	10.	ĮŪ
/5-09-2	Methylene_Chloride_		5.	IU
5/-64-1	Acetone		10.	ĮU
/5-15-0	Carbon disulfide		5.	IU
/5-35-4	1,1-Dichloroethene_		5.	IU
75-34-3	1,1-Dichloroethane_		5.	IU
156-60-5	trans-1,2-Dichloroe	thene	5.	ĮŪ
156-59-2	cis-1,2-Dichloroeth		5.	ΙU
	Chloroform		5.	IU
107-02-2	1,2-Dichloroethane_		5.	ĮŪ
78-93-3	2-Butanone		10.	ΙU
71-55-6	1,1,1-Trichloroetha	ne	5.	ΙU
56-23-5	Carbon Tetrachlorid	e	5.	] U
75-27-4	Bromodichloromethan	e	5.	ΙU
78-87-5	1,2-Dichloropropane		5.	IU
10061-01-5	cis-1,3-Dichloropro	pene l	5.	ΙU
79-01-6	Trichloroethene	. 1	5.	ĬU
124-48-1	Dibromochloromethan	e i	5.	ΙŪ
79-00-5	1,1,2-Trichloroetha	ne	5.	ĬŪ
71-43-2	Benzene		5.	ĬŪ
10061-02-6	trans-1,3-Dichlorop	ropene!	5.	ΙU
75-25-2	Bromoform	i	5.	ĬU
108-10-1	4-Methyl-2-pentanon	e1	10.	ĬŪ
591-78-6	2-Hexanone	1	10.	ΙŪ
127-18-4	Tetrachloroethene		5.	ĬŪ
79-34-5	1,1,2,2-Tetrachloro	ethane	5.	iŭ
108-88-3	Toluene	<u> </u>	5.	iŭ
108-90-7	Chlorobenzene		5.	iŪ
100-41-4	Ethylbenzene		5.	
100-42-5	Styrene		5.	
133-02-7	(m+p)Xylene		5.	ĬŬ
133-02-7	0-Xvlene	·	5.	ĬŬ

NYSDEC Sample No.: WG007

# 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.
Lab Code: 10145 Case No.: -Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL) ML

Level (low/med): LOW
% Moisture: not dec. 100
Column (pack/cap): CAP

Number TIC's found: 3

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001 Lab Sample ID: R93/798-7

Lab File ID: >E3793
Date Received: 02/25/93
Date Analyzed: 03/01/93
Dilution Factor: 1.0

Concentration Units:

(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
i e		4.65	12	J
1_1	Unknown	7.45	29	J
2.	Unknown	7.78	36	.7
3.	Unknown		79	
4.		<del></del>	<del></del>	
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FORM I VOX-TIC B-103 ab Name:GENERAL TESTING Contract:DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER Lab Sample ID: R93/798-1

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D9496

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec. 100 dec. ---- Date Extracted: 02/26/93

GPC Cleanup: (Y/N) N pH:--- Date Analyzed: 3/02/93

rinal Extract Volume:1 (uL) Dilution Factor: 1.00000

njection Volume: 1 (uL) Conversion Factor: 1.0000

GN G . W. a		CONCEN	TRA	TION U	NITS:	
CAS NO.	COMPOUND	(ug/L	or	ug/Kg)	UG/L	Q
1						
108-95-2	Phenol			i	10,	ίυ
111-44-4	bis(-2-Chloroe	thyl)Ethe	r		10.	10
1 33-3/-8- <del>-</del>	2-Chlorophenol				10.	
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		nzana			10.	, -
1 100-40-/	1 4-Dichlaraba	2222			10.	
1 22-20-1- <del></del>	la-Dichlorobe	nzana			10.	
1 33-40-/- <b>-</b>					10.	• =
1 100-00-1 <del></del>	ノ・ノニーのVVわぇセノ1.	Chlarana			10.	,
1 IUO-44-5	4-Methvlnhenol				10.	10
1 021-04-/		nranielau	1	,	10.	Į U
U/~/4-1	Heyach Loroctha	20.0			10.	f U
, ,o-,,-,- <del></del> -	Nitrobangana				10.	ΙÜ
, ,o-jj-l- <b>-</b>	SONBORODO				10.	↓U
					10,	ļυ
, 200 0, 5	ニニニッと、チェリルのほとかびしゃん	anal		•	10.	†U ↓U
	・ニーニーローターニノーにカナベンベム	+ 12 A 200 - 1 Ad - 1 1	l		10.	, -
. x20~03 <b>~2~</b>	ニニニース・4ーロ1 でわしのとのわれた	anal			10.	10
		Ahanaaaa			10.	Į U
2	Naphrhalene			1	10.	↓U
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ニーーーチーしわしのとへるのでしてい	^		1	·	Į U
0/-00-3	dexach Lorobutes.	diana		•	10.	Į U
JJ-JU-/	4-Chloro-3-mat	hulnhanal			10.	ĮU Į
J1-J/-U	ニーニースーMPENVINaNNEN	a l an a			10.	ĮŲ į
,,==,- <u>u</u>	Heyach   Orocue)	anau4			10.	IU I
00-00-2	ニニー・ス・4 ちーじゃすぐりするか。	anhanal			10,	ĮU į
JJ - JJ - 4	ニニニマス・4・5~じて1chlom	onhonal		1	10.	TU I
J. JU-/	ニニニーノーにカナのとのわらわれたか。	a lana			50.	lu l
00-/4-4	/-Nitroanitina				10.	in I
* ? * - * * - ? <del></del>	Dimethy: Phtha	1 <b>5</b> + 6		•	50.	10 1
200-30-0	Acenaphthylene				10,	10 1
606-20-2	2,6-Dinitrotol	iana		!	10,	in I
	-,	ACITE		!	10.	in I
		<del> </del>	<del></del> -			}

1 C SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET EPA SAMPLE NO. Lab Name: GENERAL TESTING WG001 Contract: DAY ENG. ab Code: 10145 Case No.: ---SAS No.: ---SDG No.: WG001 Matrix: (soil/water) WATER Lab Sample ID: R93/798-1 ample wt/vol: 1000 (q/mL) ML Lab File ID: >D9496 (low/med) LOW Date Received: 02/25/93 % Moisture: not dec.100 dec. ----Date Extracted: 02/26/93 C Cleanup: (Y/N) N pH:---Date Analyzed: 3/02/93 Final Extract Volume:1 (uL) Dilution Factor: 1.00000 jection Volume: 1 (uL) Conversion Factor: 1.0000 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q 99-09-2----3-Nitroaniline_____ 83-32-9-----Acenaphthene____ 50. 1 U 51-28-5----2,4-Dinitrophenol____ 10. 1 U | 100-02-7----4-Nitrophenol_____ 50. +U 132-64-9-----Dibenzofuran____ 50. 1U | 121-14-2----2,4-Dinitrotoluene_____| 10. 1 U 84-66-2----Diethylphthalate____ 10. 1 U 7005-72-3----4-Chlorophenyl-phenylether__| 2. 1J 86-73-7-----Fluorene 10. 10 100-01-6----4-Nitroaniline____ 10. 1 U 534-52-1----4,6-Dinitro-2-methylphenol___ 50. 1 U | 86-30-6----N-Nitrosodiphenylamine (1)__| 50. IU 10. 1 U 118-74-1----Hexachlorobenzene____ 10. 1 U 87-86-5----Pentachlorophenol____ 10. 1U 85-01-8-----Phenanthrene____ 50. l U 10. 1U 86-74-8------Carbazole___ 10. 1 U 84-74-2----Di-n-Butylphthalate_____ 10. Į U 206-44-0----Fluoranthene____ 10. Į U 129-00-0-----Pyrene 10. 1 U 85-68-7----Butyl benzyl_phthalate____ 10. 1 U 91-94-1----3,3'-Dichlorobenzidine____ 10. IU

56-55-3----Benzo(a)Anthracene_____

| 117-81-7----Bis(2-Ethylhexyl)Phthalate__|

117-84-0----Di-n-octyl_phthalate_____

205-99-2-----Benzo(b)fluoranthene_____

207-08-9----Benzo(k)Fluoranthene____

193-39-5-----Indeno(1,2,3-cd)Pyrene_____

53-70-3----Dibenz(a,h)anthracene_____

218-01-9-----Chrysene

50-32-8----Benzo(a)Pyrene_

191-24-2----Benzo(g,h,i)Perylene_

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| WG002

Lab Name: GENERAL TESTING Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER Lab Sample ID: R93/798-2

mple wt/vol: 1000 (g/mL) ML Lab File ID: >D9499

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

C Cleanup: (Y/N) N pH:--- Date Analyzed: 3/02/93

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL) Conversion Factor: 1.0000

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q

		3, 113, 10, 2	¥
108-95-2	Phenol		
111-44-4	his/ 2 Chi	_ 12.	ļ
95-57-8	bis(-2-Chloroethyl)Ether	_ 10.	ļυ
541-73-1	2-Chlorophenol	10.	ΙŪ
106-46-7	1,3-Dichlorobenzene	_} 10.	ļυ
25 50 1	1,4-Dichlorobenzene	1 10.	1 U
95-10-1	1,2-Dichlorobenzene	_1 10.	ļυ
100 60 4	2-Methylphenol	_1 10.	ļU
108-60-1	2,2'-oxybis(1-Chloropropane	10.	U
100-44-5-	4-Methylphenol	1 10.	ļU
621-64-/	N-Nitroso-Di-n-propylamine_	_  10.	ΙU
6/-/2-1	Hexachloroethane	_1 10.	ļυ
98-95-3	Nitrobenzene	1 10	ļυ
/8-59-1 <b>-</b>	Isophorone	1 10	ĺυ
88-/5-5	2-Nitrophenol	1 1/2	Ìυ
103-6/-9-	2.4-Dimethvlphenol	1.0	ĺŪ
111-91-1-	bis(-2-Chloroethoxy)Methane	1 1 0	ប
120-83-2	2,4-Dichiorophenol	1 10	įυ
120-82-1	1.2.4-Trichlorobenzeno	1 40	ίŪ
91 - 20 - 3	Naphthalene	_  10.	ļΰ
106-47-8-	4-Chloroaniline	10.	•
0/-00-3		1 40	ļŪ
59-50-/	4-Chloro-3-methvlohenol	1 40	ļū
31-3/-0	2-Methvlnaphthalene	1 10	ļŭ
//-4/-4	Hexachlorocyclopentadiene	1 40	ĺΰ
00-00-2	2.4.6-Trichlorophenol	1 40	Įΰ
93-93-4-~-	2,4,5-Trichlorophenol	1 50	ĮŪ
91-58-/	2-Chloronaphthalene	1 10	I U
88-/4-4	2-Nitroaniline	1 50	
T 2 Y - T Y - 2	Dimethyi Phthalate	1 10	ļυ
208-96-8	Acenaphthylene	_[ 10.	ļU
606-20-2	2,6-Dinitrotoluene		ļŪ
	, - 22 and o o o a delice	_[ 10,	ţU

ab Name: GENERAL TESTING Contract: DAY ENG.

WG002

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

Lab Sample ID: R93/798-2

ample wt/vol: 1000 (g/mL) ML

Lab File ID: >D9499

Level: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec. 100 dec. ---- Date Extracted: 02/26/93

**■**PC Cleanup: **(Y/N)** N pH:---

Date Analyzed: 3/02/93

Final Extract Volume:1 (uL)

Dilution Factor: 1.00000

njection Volum**e**: 1 (uL)

Conversion Factor: 1.0000

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or	ug/Kg) UG/L	Q
99-09-2	2 Nitro		ı
93-32-0	3-Nitroaniline	\$ 50.	ļυ
51-28-5	Acenaphthene		Įυ
100-02-ガー	2,4-Dinitrophenol	[ 50.	ţΩ
132 64 0	4-Nitrophenol	50.	ţυ
131 11 2	Dibenzofuran	10.	ţυ
8466. 2	2,4-Dinitrotoluene	1 10.	ļυ
7005 72 3	Diethylphthalate	10.	ţΠ
7005-72- <b>3</b>	4-Chlorophenyl-phenylether	rf 10,	Įυ
86-/3-/	Fluorene	10.	ţΠ
100-01-6	4-Nitroaniline	1 50	ļΠ
534-52-1	4,6-Dinitro-2-methylphenol	1 <u></u> † 50.	ΙŪ
86-30-6	N-Nitrosodiphenylamina (1)	1 1	ΙU
101-55-3	4-Bromophenvl-phenvlathar	1 10	įυ
110-/4-1	Hexachlorobenzene	1 10	ĺυ
8/-86-5	Pentachlorophenol	1 50	Ü
85-01-8	Phenanthrene	1.0	ÌŪ
120-12-/	Anthracene	10.	Ü
86-/4-8	Carbazole	1 10	įŪ
84-74-2	Di-n-Butvlphthalate	1 10	Ü
200-44-0	Fluoranthene		ļŪ
129-00-0	Pvrene	1 10	ίŬ
85-68-7	Butyl benzyl_phthalate	1 40	ļυ
91-94-1	3,3'-Dichlorobenzidine	1 20	ĮŪ
20-22-3	Benzo(a)Anthracene	1 10	įυ
218-01-9	Chrysene	1 10	
11/-81-7	Bis(2-Ethv]hexv]}Ph+hala+e	. 1 10	ΙU
117-84-0	Di-n-octyl_phthalate	10,	Į U
205-99-2	Benzo(b)fluoranthene	10.	ΙŪ
207-08-9	Benzo(k)Fluoranthene		ΙÜ
50-32-8	Benzo(a)Pyrene	10.	ΙU
193-39-5	Indeno(1,2,3-cd)Pyrene		ΙÜ
53-70-3	Dibenz(2, b) anthrogen		ļŪ
191-24-2	Dibenz(a,h)anthracene		ΙU
131-24-2	Benzo(g,h,i)Perylene	10.	Į U
) - Cannot be	separated from Diphenylamine		+

NYSDEC Sample No: WG002

# 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.

Lab Code: 10145 Case No.: --

■ Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML

Level (low/med): LOW

% Moisture: not dec. 100 dec. Extraction: (SepF/Cont/Sonc)SEPF

GPC Cleanup (Y/N) N pH

Number TIC's found: 8

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample ID: R93/798-2

Lab File ID: >D9499

Date Received: 02/25/93
Date Extracted: 02/26/93
Date Analyzed: 03/02/93
Dilution Factor: 1.0

Concentration Units: UG/L

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	7.63	8.0	JB_
2.	Unknown	9,23	5.0	JB
3. 104767	1-Hexanol, 2-ethyl-	11.07	6.0	J
4.	Unknown acid type	13.76	17	J
5. 103822	Benzeneacetic acid	15,20	6.0	J J
6.	Unknown acid type	17.11	6.0	J
7.	Unknown acid type	20.18	5.0	J
- <u>2</u>	Unknown	34.81	6.0	JB
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FORM I SV-TIC NYSDEC B-78

WG003

ab Name: GENERAL TESTING

Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER Lab Sample ID: R93/798-3

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D9500

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec.100 dec. --- Date Extracted:02/26/93

PC Cleanup: (Y/N) N pH:--+ Date Analyzed: 3/02/93

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

njection Volum**e**: 1 (uL) Conversion Factor: 1.0000

CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L | 108-95-2----Phenol 10. ↓U | 111-44-4----bis(-2-Chloroethyl)Ether____| ΙU 10. 95-57-8----2-Chlorophenol____ 10. IU | 541-73-1----1,3-Dichlorobenzene______ 10. IU 106-46-7----1,4-Dichlorobenzene_____ 10. 1U 95-50-1----1,2-Dichlorobenzene_____ 10. 1 U | 95-48-7----2-Methylphenol____ 10. 1U | 108-60-1----2,2'-oxybis(1-Chloropropane)| IU 106-44-5----4-Methylphenol____ 10. 1U 621-64-7----N-Nitroso-Di-n-propylamine__| 10. IU 67-72-1------Hexachloroethane_____ 10. 1 U | 98-95-3----Nitrobenzene_____ 10. 1 U | 78-59-1----Isophorone_____ 10. 1U 10. 10 105-67-9----2,4-Dimethylpheno1____ 10. 1U | 111-91-1----bis(-2-Chloroethoxy)Methane_| 10. IU | 120-83-2----2,4-Dichlorophenol_____ 10. 1 U 120-82-1----1,2,4-Trichlorobenzene____ 10. IU | 91-20-3-----Naphthalene__ 10. Į U 10. 1U 87-68-3------Hexachlorobutadiene_____ 10. I U 10. I U | 91-57-6----2-Methylnaphthalene___ 10. 1 U 77-47-4-----Hexachlorocyclopentadiene____! 10. 1 U 88-06-2----2,4,6-Trichlorophenol____ 10. 1U 95-95-4----2,4,5-Trichlorophenol_____ 50. 1U 10. 1 U | 88-74-4----2-Nitroaniline_ 50. 1 U 131-11-3-----! Phthalate____! 10. 1U | 208-96-8-----Acenaphthylene_____ 10. 10 606-20-2----2,6-Dinitrotoluene______ I U

WG003

Name: GENERAL TESTING

Contract: DAY ENG.

Case No.: --- SAS No.: ---

SDG No.: WG001

Matrix: (soil/water) WATER

1000 (g/mL) ML Lab File ID: >D9500

Lab Sample ID: R93/798-3

mple wt/vol:

b Code: 10145

Level:

(low/med)LOW

Date Received: 02/25/93

C Cleanup:

(Y/N) N

pH:---

đec. ----

Date Extracted: 02/26/93

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Date Analyzed: 3/02/93

Final Extract Volume:1

-Moisture: not dec.100

(uL)

Dilution Factor: 1.00000

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jection Volume: 1 (uL)

Conversion Factor:

1,0000

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q | 99-09-2----3-Nitroaniline_____ 50. 1 U 83-32-9-----Acenaphthene 10. ΙU 51-28-5----2,4-Dinitrophenol_____| 50. 1U

132-64-9------Dibenzofuran_____ 7005-72-3----4-Chlorophenyl-phenylether___!

100-01-6-----4-Nitroaniline_______

534-52-1----4,6-Dinitro-2-methylphenol___ 86-30-6----N-Nitrosodiphenylamine (1)___ 101-55-3-----1 Bromophenyl-phenylether____!

FORM I SV-2

| 118-74-1----Hexachlorobenzene_____ 87-86-5----Pentachlorophenol____ 85-01-8------Phenanthrene______

120-12-7-----Anthracene_____ 86-74-8-----Carbazole______

84-74-2----Di-n-Butylphthalate_____ 206-44-0-----Fluoranthene______ 129-00-0-----Pyrene

85-68-7----Butyl benzyl_phthalate____ 91-94-1-----3,3'-Dichlorobenzidine_____ 56-55-3----Benzo(a)Anthracene____

218-01-9-----Chrysene ____ 117-81-7----Bis(2-Ethylhexyl)Phthalate___| 117-84-0----Di-n-octyl_phthalate_____

205-99-2----Benzo(b)fluoranthene_____ 207-08-9----Benzo(k)Fluoranthene_____ | 50-32-8----Benzo(a)Pyrene_

193-39-5----Indeno(1,2,3-cd)Pyrene____ 53-70-3----Dibenz(a,h)anthracene____ | 191-24-2----Benzo(g,h,i)Perylene_____

(1) - Cannot be separated from Diphenylamine

 $000032_{1/89 \text{ Rev.}}$ 

NYSDEC Sample No: WG003

## 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML

Level (low/med): LOW

% Moisture: not dec. 100 dec. Extraction: (SepF/Cont/Sonc)SEPF

GPC Cleanup (Y/N) N pH

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample 1D: R93/798-3

Lab File ID: >D9500

Date Received: 02/25/93
Date Extracted: 02/26/93
Date Analyzed: 03/02/93

Dilution Factor: 1.0

Concentration Units: UG/L

(uq/L or uq/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	7.62	6.0	JB
2.	Unknown	34.82	7.0	JB
2. 3.				
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<u>4.</u> <u>5.</u>				ļ
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14.			·····	<u> </u>
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22.			ļ	
23.		ļ	<u> </u>	<del> </del>
24.		ļ		<del> </del>
25.		ļ		
26.		ļ	<b></b>	
27.		<del> </del>	<del> </del>	<del> </del>
28.		<del> </del>	-	<del> </del>
29.		<del> </del>		<del> </del>
30.	DODU T GU MTG	<b>↓</b>	<del></del>	<del></del>

FORM I SV-TIC NYSDEC B-78

## SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

| WG004

mab Name:GENERAL TESTING Contract:DAY ENG.

Matrix: (soil/water) WATER Lab Sample ID: R93/798-4

mple wt/vol: 1000 (g/mL) ML Lab File ID: >D9501

Lavel: (low/med) LOW Date Received: 02/25/93

Moisture: not dec.100 dec. --- Date Extracted:02/26/93

C Cleanup: (Y/N) N pH:--- Date Analyzed: 3/02/93

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL) Conversion Factor: 1.0000

## CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/K	J) UG/L	Q
	1		1
108-95-2		10.	ΙU
111-44-4	bis(-2-Chloroethyl)Ether	10.	ĮU
95-57-8 <b>-</b>	2-Chlorophenol	10.	ĬΩ
541-73-1	1,3-Dichlorobenzene	10.	ΙU
106-46-7	1,4-Dichlorobenzene	10.	ļU
95-50-1	1,2-Dichlorobenzene	10.	ΙU
95-48-7	2-Methylphenol	10.	Įυ
	2,2'-oxybis(1-Chloropropane)	10.	10
106-44-5	4-Methylphenol	10.	ĮU
621-64-7	N-Nitroso-Di-n-propylamine	10.	ŧυ
67-72-1	Hexachloroethane	10.	IU
98-95-3	Nitrobenzene	10.	ĮŪ
78-59-1 <del>-</del>	Isophorone	10.	ļU
88-75-5	2-Nitrophenol	10.	lU
	2,4-Dimethylphenol	10.	ĮŲ
	bis(-2-Chloroethoxy)Methane_	10.	IU
	2,4-Dichlorophenol	10.	ĮŪ
120-82-1	1,2,4-Trichlorobenzene	10.	ĮU
91-20-3	Naphthalene	10.	ĮŪ
106-4/-8	4-Chioroaniline	10.	ĮŲ
87-68-3	Hexachlorobutadiene	10.	IU
	4-Chloro-3-methylphenol		ΙU
91-57-6	2-Methylnaphthalene	10.	Įΰ
77-47-4	Hexachlorocyclopentadiene!	10.	ĮŪ
88-06-2	2,4,6-Trichlorophenol	10.	ĮŪ
95-95-4	2,4,5-Trichlorophenol	50.	ľŪ
91-58-7	2-Chloronaphthalene	10.	ΙU
88-74-4	2-Nitroaniline	50.	IU
131-11-3	Dimethyl Phthalate	10.	ĮŪ
208-96-8	Acenaphthylene	10.	IU
606-20-2	2,6-Dinitrotoluene	10.	ĬΩ
<del></del>		<del></del>	!

PERSONAL PROPERTY

WG004 b Name: GENERAL TESTING Contract: DAY ENG. ್ನಾ ab Code: 10145 Case No.: --- SAS No.: ---SDG No.: WG001 trix: (soil/water) WATER Lab Sample ID: R93/798-4 Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D9501 vel: (low/med) LOW Date Received: 02/25/93 Moisture: not dec.100 dec. +---Date Extracted: 02/26/93 EC Cleanup: (Y/N)N---:Ha Date Analyzed: 3/02/93 hal Extract Volume:1 (uL) Dilution Factor: 1.00000 Injection Volume: 1 Conversion Factor: (uL) 1.0000 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/Kg) UG/L 0 50. IU 83-32-9------Acenaphthene______ 10. 1 U | 51-28-5----2,4-Dinitrophenol_____| 50. IU 50. IU132-64-9-----Dibenzofuran_____ 10. IU 10. IU 84-66-2----Diethylphthalate____ 10. 1 U 7005-72-3----4-Chlorophenyl-phenylether___! 10. 10 | 86-73-7----Fluorene ___ 10. IU 50. IU 534-52-1----4,6-Dinitro-2-methylphenol___ 50. IU 86-30-6----N-Nitrosodiphenylamine (1)___| 10. ΙU 10. ΙU 118-74-1-----Hexachlorobenzene____ 10. 10 87-86-5----Pentachlorophenol_____ 50. I U 85-01-8----Phenanthrene_____ 10. 1 U 120-12-7-----Anthracene_____ 10. 1U| 86-74-8-----Carbazole 10. ΙU 84-74-2----Di-n-Butylphthalate_____ 10. 1 U 206-44-0-----Fluoranthene_____ 10. IU 129-00-0-----Pyrene 10. 1 U 85-68-7----Butyl benzyl_phthalate____ 10. 10 91-94-1----3,3'-Dichlorobenzidine_____ 20. I U 56-55-3----Benzo(a)Anthracene_____ 10. 1 U 218-01-9-----Chrysene _ 10. 1 U 117-81-7----Bis(2-Ethylhexyl)Phthalate___ 10. 1 U 117-84-0----Di-n-octyl_phthalate_____| 10. IU 205-99-2----Benzo(b)fluoranthene____ 10. IU | 207-08-9----Benzo(k)Fluoranthene______ 10. 1U | 50-32-8-----Benzo(a)Pyrene__ 10. IU 193-39-5----Indeno(1,2,3-cd)Pyrene____ 10. IU 53-70-3----Dibenz(a,h)anthracene_____ 10. 1 U | 191-24-2----Benzo(q,h,i)Perylene_____| 10. IU

FORM I SV-2

(1) - Cannot be separated from Diphenylamine

NYSDEC Sample No: WG004

## 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Lab Code: 10145 Case No.: -- Matrix: (soil/water) WATER

Sample wt/vol: 1000 (g/mL) ML

Level (low/med): LOW

% Moisture: not dec. 100 dec. Extraction: (SepF/Cont/Sonc)SEPF

GPC Cleanup (Y/N) N pH

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample ID: R93/798-4

Lab File ID: >D9501

Date Received: 02/25/93
Date Extracted: 02/26/93
Date Analyzed: 03/02/93

Dilution Factor: 1.0

Concentration Units: UG/L

(ug/L or ug/Kg)

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	7.62	5.0	JB
2.	Unknown	34.81	5.0	JB
3.			7 -	
4.				
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20.		<del></del>		<b> </b>
<u>21.</u> 22.			<u> </u>	ļ
22.		<u></u>	<del> </del>	<b></b>
23.		ļ	ļ	<del>  </del>
24.			<del> </del>	ļ
25.			ļ <u>.</u>	<del> </del>
26.		ļ	<del> </del>	<del> </del>
27.		ļ	<del>-</del>	<b> </b>
28.		<del>                                     </del>	<del>                                     </del>	<del> </del>
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FORM I SV-TIC NYSDEC B-78 b Name: GENERAL TESTING Contract: DAY ENG. WG005

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

matrix: (soil/water) WATER Lab Sample ID: R93/798-5

mple wt/vol: 1000 (g/mL) ML Lab File ID: >D9502

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

GPC Cleanup: (Y/N) N pH:--- Date Analyzed: 3/03/93

Inal Extract Volume: 1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL) Conversion Factor: 1.0000

	CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/		Q	
† 	108-95-2	Dla 3			1	. • 
1	111-44-4	Phenoi		10.	ţU	1
ı'	9557. 0	bis(-2-Chloroethy	71)Ether	10.	ΙU	-
1	541_72_1	-2-Chlorophenol		10,	ţU	1
1	106-46-7	-1,3-Dichlorobenze	ene	10.	ţυ	1
1	95-50-1	-1,4-Dichlorobenze	ene	10.	ţυ	
1	95-49 7	-1,2-Dichlorobenze	ene	10.	ļŪ	1
-	109 60 1	-2-Methylphenol		10.	ļŪ	1
1	106-00-1	-2,2'-oxybis(1-Ch]	loropropane)	10.	U	1
1	624 64 7	-4-Methylphenol		10.	ļŪ	1
	67 72 4	-N-Nitroso-Di-n-pr	copylamine	10.	f U	1
į.	00 05 0	-Hexachloroethane_		10.	ĮÜ	Ĺ
	98-95-J <del>-</del>	-Nitrobenzene			ΙU	İ
1	/ O-39-1 <del>-</del>	Lsophorone		1 40	iu	i
-	00-/3-3	Nitrophenol		10.	ļU	i
1	103-0/-9	2,4-Dimethylphenol bis(-2-Chloroethoxy)Methane_		4.0	įυ	i
- !		-bis(-2-Chloroethr	vvv i Mathana	10.	U	ì
!	140-83-4	-2.4-Dichlorophana	<b>,</b> 1	4.0	ίŪ	i
!	120-02-1	·-1.2.4-Trichlorobe	nzana	۱ ، ۸	Ų	i
1	J1-20-3	-Naphthalene	•	4.0	ίū	i
!	100-4/-8	-4-Chioroaniline	,	1 40	ίυ	i
1	8/-68-3	-Hexachlorobutadie	na I	4.0	ίŭ	ï
!	33-30-/	-4-Chioro-3-methv1	phenol :	4.0	ļŪ	'n
	31-3/-6	-2-Methylnaphthale	ne i	1.0	ļŪ	i
1	//-4/-4	-Hexachlorocyclone	ntadiana l	4.0	ĺΰ	i
I	88-06-2	-2.4.6-Trichloroph	enol	4.0	lu	i
1	33-35-4	-2.4.5-Trichloroph	enol	<b>F</b> 0	ĬŬ	1
ı	31-30-/	-2-Chloronanhthala	no I	4.0	ĬÜ	;
1	00-/4-4	-2-Nitroaniline	1	F 0	Į U	1
1		-Dimethyl Phthalat	<b>A</b> 1	4.0	lu	1
	208-96-8	-Acenaphthylene		1.0	IU	1
-	606-20-2	-2,6-Dinitrotoluen	e	10.	ľU	i L
1_					1	ŀ

NYSDEC Sample No: WG005

10.

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# 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

	Y IDENTIFIED COMPOUNDS
Lab Name: General Testing Corp. Lab Code: 10145 Case No.: Matrix: (soil/water) WATER Sample wt/vol: 1000 (g/mL) ML Level (low/med): LOW % Moisture: not dec. 100 dec. Extraction: (Senf/Cont/Song)SEPR	
1C SEMIVO <b>L</b> ATILE ORGANICS ANA	FDA SAMDIE NO
b Name:GENERAL T <b>ESTIN</b> G	Contract: DAY ENG.
b Code: 10145 Case No.:	SAS No.: SDG No.: WG001
trix: (soil/water) WATER	Lab Sample ID: R93/798-5
mple wt/vol: 1000 (g/mL) M	L Lab File ID: >D9502
vel: (low/me <b>d</b> ) LOW	Date Received: 02/25/93
Moisture: not <b>d</b> ec.100 dec	Date Extracted: 02/26/93
C Cleanup: (Y/N) N pH:	
nal Extract Volume:1 (uL)	
jection Volume: 1 (uL)	Conversion Factor: 1.0000
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L Q
99-09-23-Nitroanili	
83-32-9Acenaphthene	ne
51-28-52,4-Dinitrop	nenol 10. IU
1 100-02-74-Nitropheno	1 50
1 132-64-9Dibenzofuran	1 10 111 1
1 121-14-2- <b>2,4-</b> Dinitrote	oluene t in in
1 84-66-2Diethylphtha	late : 10 iii i
1 /005-/2-34-Chlorophen	vi-phonulathor to the to
86-73-7Fluorene	10,  U
86-73-7Fluorene   100-01-64-Nitroanilin	ne
1 334-32-14,6-Dinitro-	2-methylphanol ( En iii i
86-30-6N-Nitrosodip	nenylamine (1)  10.  U
101-55-34-Bromopheny	i-phenylether! 10.  U
118-74-1Hexachlorober	nzene
87-86-5Pentachloroph	neno1
120-12-7Anthracene	1.  J
86-74-8Carbazole	10. U I
84-74-2Di-n-Butylph	thalate 1 10.  U
	Maria a ta t. 1   1   1   1   1   1   1   1   1   1

84-74-2----Di-n-Butylphthalate____

| WG006

b Name:GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

Lab Sample ID: R93/798-6

mple wt/vol: 1000 (g/mL) ML

Lab File ID: >D9503

Level: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

C Cleanup: (Y/N) N pH:---

Date Analyzed: 3/03/93

Final Extract Volume:1 (uL)

Dilution Factor: 1.00000

jection Volume: 1 (uL)

Conversion Factor: 1.0000

111-44-4	Q
111-44-4	
95-57-8      2-Chlorophenol       10.         541-73-1       1, 3-Dichlorobenzene       10.         106-46-7       1, 4-Dichlorobenzene       10.         95-50-1      1, 2-Dichlorobenzene       10.         95-48-7      1, 2-Dichlorobenzene       10.         95-48-7	ļυ
10.   106-46-71, 4-Dichlorobenzene   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	ΙU
10.   95-50-1.	Įυ
10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	ΙU
10.   95-48-71, 2-Dichlorobenzene   10.   95-48-72-Methylphenol   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   1	ļυ
10.   108-60-12,2'-oxybis(1-Chloropropane)   10.   10.   106-44-54-Methylphenol   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10	Įυ
10.6-44-54-Methylphenol 10.621-64-7N-Nitroso-Di-n-propylamine 10.67-72-1Hexachloroethane 10.98-95-3Nitrobenzene 10.78-59-1Isophorone 10.88-75-5	Įυ
621-64-7N-Nitroso-Di-n-propylamine       10.         67-72-1Hexachloroethane       10.         98-95-3Nitrobenzene       10.         78-59-1Isophorone       10.         88-75-52-Nitrophenol       10.         105-67-92,4-Dimethylphenol       10.         111-91-1bis(-2-Chloroethoxy)Methane       10.         120-83-22,4-Dichlorophenol       10.         120-82-11,2,4-Trichlorobenzene       10.         91-20-3Naphthalene       10.         106-47-84-Chloroaniline       10.         87-68-34-Chloro-3-methylphenol       10.         91-57-6	U
621-64-7N-Nitroso-Di-n-propylamine       10.         67-72-1Hexachloroethane       10.         98-95-3Nitrobenzene       10.         78-59-1Isophorone       10.         88-75-52-Nitrophenol       10.         105-67-92,4-Dimethylphenol       10.         111-91-1bis(-2-Chloroethoxy)Methane       10.         120-83-22,4-Dichlorophenol       10.         120-82-11,2,4-Trichlorobenzene       10.         91-20-3Naphthalene       10.         106-47-84-Chloroaniline       10.         87-68-34-Chloro-3-methylphenol       10.         91-57-6	ΙU
10.   98-95-3	ţU
10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   11.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	Ū
10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	ĺŪ
10. 105-67-92,4-Dimethylphenol	Ū
10.11-91-1	Ū
10.120-83-22,4-Dichlorophenol 10.120-82-11,2,4-Trichlorobenzene 10.120-82-11,2,4-Trichlorobenzene 10.10.120-82-1Naphthalene 10.10.120-82-1Naphthalene 10.10.120-82-1	ļŪ
10. 120-83-22,4-Dichlorophenol	U
10. 91-20-3Naphthalene	ĮŪ
10.   106-47-8Naphthalene	Ū
106-47-84-Chloroaniline	Ū
10. 59-50-74-Chloro-3-methylphenol   10. 91-57-62-Methylnaphthalene   10. 77-47-4Hexachlorocyclopentadiene   10. 38-06-22,4,6-Trichlorophenol   10. 95-95-42,4,5-Trichlorophenol   50. 91-58-72-Chloronaphthalene   10. 38-74-42-Nitroaniline   50. 131-11-3Dimethyl Phthalate   10. 208-96-8	ļ Ū
10. 91-57-62-Methylnaphthalene	ľŪ
10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.   10.	l U
7/-47-4	U
38-06-22,4,6-Trichlorophenol	ľŪ
50. 01-58-72.4,5-Trichlorophenol	IJ
38-74-42-Chloronaphthalene	U
50. 131-11-3	•
208-96-8Acenaphthylene	U
208-96-8Acenaphthylene 1 10	U
506-20-2	U
10.	l U l U

EPA SAMPLE NO.

WG006

Eab Name:GENERAL TESTING

Contract:DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

1atrix: (soil/water) WATER

Lab Sample ID: R93/798-6

imple wt/vol: 1000 (g/mL) ML Lab File ID: >D9503

evel: (low/med) LOW

Date Received: 02/25/93

Moisture: not dec.100 dec. ----

Date Extracted: 02/26/93

C Cleanup: (Y/N) N pH:--- Date Analyzed: 3/03/93

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL)

Conversion Factor: 1.0000

99-09-23-Nitroaniline	50. 10. 50. 50. 10.	10 10 10 10
100-02-74-Nitrophenol   132-64-9Dibenzofuran	10. 50. 50. 10. 10.	1 n 1 n 1 n
100-02-74-Nitrophenol    132-64-9Dibenzofuran	50. 50. 10. 10.	1 n 1 n 1 n
132-64-9Dibenzofuran	50. 10. 10.	in In
1 132-04-9Dibenzoturan	10. 10. 10.	U
1 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	10.	•
1 141-14-2	10.	ţυ
121-14-22,4-Dinitrotoluene    84-66-2Diethylphthalate		
7005-72-34-Chlorophenyl-phenylether		ļυ
86-73-7Fluorens	10.	ΙU
86-73-7Fluorene	10.	ļŪ
534-52-1	50.	ţυ
534-52-14,6-Dinitro-2-methylphenol	50.	ĮŪ
86-30-6N-Nitrosodiphenylamine (1)	10,	ΙU
1 101-55-34-Bromophenyl-phenylether	10.	IU
1 118-74-1	10.	ţΠ
87-86-5Pentachlorophenol	50.	ļŪ
85-01-8Phenanthrene	10.	ţŭ
120-12-7Anthracene	10.	ļυ
00=/4=8=========Carbazole	10.	ļυ
04-/4-4  1-n-Rutv  nhthalato	10.	ΙU
ZUD-44-U	10,	ĺυ
i 123-00-0Pvrene	10.	ίũ
85-68-7Butyl benzyl bhthalata	10.	ίū
Ji Ji Ji Ji Ji Ji Ji Ji Ji Ji Ji Ji Ji	20.	์ เบิ
JU-JJ-JBenzo(a)Anthracene	10.	Ü
410-01-9(hrvsene	10.	ĬÜ
117-81-7Bis(2-Ethv]hevv])ph+halato	10.	ĮŪ
/_04-U )1-n-octv	10.	ļŪ
4UD-33-4Benzo(b)fluoranthana	10.	ΙÜ
40/-00-3Benzo(K)Fluoranthana	10.	ļŪ
5U-32-8Benzo(a)Pvrene	10.	1 U
193-39-5- <del></del> 1ndeno(1,2,3-cd)Pyrene	10.	1 U
53-70-3Dibenz(a.h)anthracene ;	10.	10
	10.	10
	10.	1
1) - Cannot be separated from Diphenylamine	0.00	- † <del></del>

NYSDEC Sample No: WG006

#### 1F - SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp. Lab Code: 10145 Case No.: --

Matrix: (soil/water) WλΤΕR

Sample wt/vol: 1000 (g/mL) ML

Level (low/med): LOW

% Moisture: not dec. 100 dec. Extraction: (SepF/Cont/Sonc)SEPF

GPC Cleanup (Y/N) N pH

Number TIC's found: 2

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample ID: R93/798-6

Lab File ID: >D9503
Date Received: 02/25/93
Date Extracted: 02/26/93
Date Analyzed: 03/03/93

Dilution Factor: 1.0

Concentration Units: UG/L (ug/L or ug/Kg)

=======================================	-=====================================					
CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q =====		
1.	Unknown	7.62	7.0	JB		
2.	Unknown	34.80	8.0	JB		
3.		2.4.00	0.0	UB		
4.						
_5.				·		
6.						
7.				·		
_8.				·		
9.				· · · · · · · · · · · · · · · · · · ·		
10.						
11.				†		
12.						
13.						
14.				·		
15.						
16.						
17.						
18.						
19.						
20.						
21.						
22.						
23.						
24.						
25.						
26.						
27.						
28.						
<u>29.</u> 30.						

FORM I SV-TIC NYSDEC B-78

SAMPLE NO.

#### 1 INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

WG001_

Lab Code: 10145

Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-1

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

1	1	1	1 1		
CAS No.	Analyte	Concentration	С	Q	M
7 <b>42</b> 9-90-5	Δluminum	234	-	·	P
7 <b>44</b> 0-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium	71.2	$\overline{\mathbf{B}}$		$\overline{P}$
<b>744</b> 0-41-7	Beryllium_				
7440-43-9	Cadmium				
7440-70-2	_ Calcium		l l		
7 <b>44</b> 0-47-3	_ Chromium_				
7 <b>44</b> 0-48-4	Cobalt	8.8	U		P
7440-50-8	Copper		1_1	· · · · · · · · · · · · · · · · · · ·	
7 <b>43</b> 9-89-6	Iron	552	1_1		<u>P</u>
7 <b>43</b> 9-92-1	Lead		_		
<u>7439-95-4</u>	Magnesium	29800	_		P
<u>7439-96-5</u>	Manganese	114	<u> </u>		<u>P</u>
7 <b>43</b> 9-97-6	Mercury		l		
7440-02-0	_ Nickel		_		
7440-09-7	<u> Potassium</u>		_		.
7 <b>78</b> 2-49-2			_		.
7440-22-4			<b> </b>		.
7440-23-5			_		.
7 <b>44</b> 0-28-0			_		
7 <b>44</b> 0-62-2		13.6	U.		<u> P</u>
7440-66-6		11.3	<u>B</u>	ļ	<u>P</u>
	Cyanide	3.7	U.		ΔS

olor Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Contract: DAY ENG.

WG002_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

ab Name: GENERAL TESTING CORP.

Lab Sample ID: 798-2

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Λnalyte	Concentration	С	Q	M	
7429-90-5	λluminum	389	-		P	
<b>7440</b> -36-0	Antimony		_			
<b>7</b> 440-38-2	Arsenic					
7440-39-3	Barium	466			<u>P</u>	ı
7440-41-7	Beryllium					
7440-43-9	Cadmium		1-1			
7440-70-2	Calcium					Ĺ
7440-47-3	Chromium		_			ĺ
7440-48-4	Cobalt	8.8	<u>U</u>		<u>P</u>	
7440-50-8	Copper		_		<u> </u>	ĺ
7439-89-6	Iron	89.6	B	ļ	P	ļ
<b>743</b> 9-92-1	Lead		_	! <del></del> -	ļ	
7439-95-4	Magnesium	129	U		<u>P</u>	
7439-96-5	Manganese	1.6	B		<u>P</u>	
<b>743</b> 9-97-6	Mercury			l		
7440-02-0	Nickel					
7440-09-7	Potassium		_			
7782-49-2	Selenium		1_		.	
7440-22-4	Silver		1_			ļ
7440-23-5	Sodium					
7440-28-0	Thallium		_			1
7440-62-2	Vanadium	13.6	<u>U</u>		<u>P</u>	1
7440-66-6	Zinc	10.2	<u> B</u>	ļ	<u> P</u>	1
	Cyanïde	3.7	<u>U</u>		<u>AS</u>	

Color Before: COLORLESS

Clarity Before: CLEAR Texture:

blor After: COLORLESS

Clarity After: CLEAR

Artifacts:

bmments:

SAMPLE NO.

### INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

WG003_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-3

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

1						l
CAS No.	Analyte	Concentration	С	Q	M	
7429-90-5	Aluminum	247	-		$\frac{1}{P}$	
7440-36-0	Antimony					
7440-38-2	Arsenic					
7440-39-3	Barium	116	В		$\overline{\mathbf{p}}$	I
7440-41-7	Beryllium					
7440-43-9	Cadmium					Ī
7440-70-2	Calcium					I
7 <b>44</b> 0-47-3	Chromium					
7440-48-4	Cobalt	8.8	U		P	I
7440-50-8	Copper					
7439-89-6	Iron	181			P	
7439-92-1	Lead					
7439-95-4	Magnesium	9720	<u> </u>		P	ļ
7439-96-5	Manganese	3.3	B		P	
7439-97-6	Mercury				l	
7440-02-0	Nickel		_			
7440-09-7	Potassium				<u> </u>	
7782-49-2	Selenium		<u> </u>			l
7440-22-4	Silver		<u> </u>			l
7440-23-5	Sodium	,	<u> </u>			1
7440-28-0	Thallium		_		l	
7440-62-2	<u>Vanadium</u>	13.6	U		<u>p</u>	1
7 <b>44</b> 0-66-6	Zinc	5.1	<u>B</u>	l	<u>P</u>	
	Cyanide	3.7	<u>U</u>	l	<u>\ \ \ S \ </u>	ĺ

Color Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Contract: DAY ENG.

WG004_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Name: GENERAL TESTING CORP.

Lab Sample ID: 798-4

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Analyte	Concentration	С	Q	М	
7429-90-5	Aluminum	8260	-		P	1
7440-36-0	Antimony		-			ĺ
7440-38-2	Arsenic		-			
7440-39-3	Barium	124	В		P	
7440-41-7	Beryllium					
7440-43-9	Cadmium					
<b>7</b> 440-70-2	Calcium				. ] ]	
<b>744</b> 0-47-3	Chromium		_		. ]	1
7440-48-4	Cobalt	8.8	<u>U</u>		<u>P</u>	
7440-50-8	Copper		<u>.</u>	,	.	
7439-89-6	Iron	11300		<del></del>	<u>P</u>	ļ
74 <b>3</b> 9-92-1	Lead			ļ <u></u>		
7439-95-4	Magnesium	66700			<u>P</u>	Ì
7439-96-5	Manganese	224	<b>-</b>		<u>P</u>	
7439-97-6	Mercury		<b> </b>		.	ļ
7440-02-0	Nickel		1-		-	1
7440-09-7	Potassium		1-		-	ļ
7782-49-2			-	ļ - <del></del>	-	ļ
7440-22-4	Silver		<del> </del> –		-	-
7440-23-5	Sodium		-			ł
7440-28-0	Thallium		1-	ļ		ł
7440-62-2	<u>Vanadium</u>	15.9	<u>B</u>	ļ <del></del>	- P	Ī
7440-66-6	Zinc	31.6	<del> </del> -	ļ	- P	-
	Cyanide	3.7	<u>U</u>	l	<u>  AS</u>	ļ

plor Before: BROWN

Clarity Before: CLOUDY

Texture:

Color After: COLORLESS

Clarity After: CLOUDY Artifacts:

omments:

SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

WG005_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-5

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	1					ī - ı
7440-36-0       Antimony         7440-38-2       Arsenic         7440-39-3       Barium       114       B       P         7440-41-7       Beryllium	CAS No.	Λnalyte	Concentration	С	Q	M
7440-36-0       Antimony         7440-38-2       Arsenic         7440-39-3       Barium       114       B       P         7440-41-7       Beryllium	7429-90-5	Aluminum	1550	1-	·	P
7440-38-2       Arsenic         7440-39-3       Barium       114       B       P         7440-41-7       Beryllium	7440-36-0	Antimony				
7440-41-7       Beryllium	7440-38-2			<u> </u>		
7440-41-7       Beryllium         7440-43-9       Cadmium         7440-70-2       Calcium         7440-47-3       Chromium         7440-48-4       Cobalt       8.8       U       P         7439-89-6       Iron       1680       P         7439-92-1       Lead       3560       B       P         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7440-02-0       Nickel	7440-39-3	Barium	114	$\overline{B}$		p
7440-70-2       Calcium         7440-47-3       Chromium         7440-48-4       Cobalt       8.8       U       P         7439-89-6       Iron       1680       P         7439-92-1       Lead       D       D         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7440-02-0       Nickel       D       D         7440-09-7       Potassium       D       D         7440-22-4       Silver       D       D         7440-23-5       Sodium       D       D         7440-62-2       Vanadium       13.6       U       D         7440-66-6       Zinc       32.2       D	7440-41-7	Beryllium				
7440-47-3       Chromium         7440-48-4       Cobalt       8.8       U       P         7440-50-8       Copper       1680       P         7439-89-6       Iron       1680       P         7439-92-1       Lead       3560       B       P         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7440-02-0       Nickel       37.8       P         7440-09-7       Potassium       37.8       P         7440-22-4       Silver       31ver       31ver         7440-23-5       Sodium       37.8       9         7440-28-0       Thallium       9       37.8       9         7440-66-6       Zinc       32.2       9	7440-43-9	Cadmium		_ :		
7440-48-4       Cobalt       8.8       U       P         7440-50-8       Copper       1680       P         7439-89-6       Iron       1680       P         7439-92-1       Lead       T       T         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7440-02-0       Nickel       T       T         7440-09-7       Potassium       T       T         7440-22-4       Silver       T       T         7440-23-5       Sodium       T       T         7440-28-0       Thallium       T       T         7440-66-6       Zinc       32.2       P	7440-70-2	Calcium		[-]		1
7440-50-8       Copper         7439-89-6       Iron       1680       P         7439-92-1       Lead       3560       B       P         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7440-02-0       Nickel	7 <b>44</b> 0-47-3	Chromium		_		
7440-50-8       Copper         7439-89-6       Iron       1680       p         7439-92-1       Lead       3560 B       p         7439-95-4       Magnesium       3560 B       p         7439-96-5       Manganese       37.8       p         7439-97-6       Mercury	7440-48-4	<u>Cobalt</u>	8.8	Ū		$ \overline{P} $
7439-92-1       Lead       3560       B       P         7439-95-4       Magnesium       3560       B       P         7439-96-5       Manganese       37.8       P         7439-97-6       Mercury	7440-50-8	Copper				
7439-92-1       Lead         7439-95-4       Magnesium       3560 B       P         7439-96-5       Manganese       37.8       P         7439-97-6       Mercury       P         7440-02-0       Nickel       P         7440-09-7       Potassium       P         7440-22-4       Silver       P         7440-23-5       Sodium       P         7440-28-0       Thallium       P         7440-66-6       Zinc       32.2       P	7439-89-6	Iron	1680			$\overline{\mathbf{p}}$
7439-96-5       Manganese       37.8       P         7439-97-6       Mercury	7439-92-1	Lead				
7439-96-5       Manganese       37.8       p         7439-97-6       Mercury	7439-95-4	Magnesium	3560	B		$\overline{P}$
7439-97-6       Mercury         7440-02-0       Nickel         7440-09-7       Potassium         7782-49-2       Selenium         7440-22-4       Silver         7440-23-5       Sodium         7440-28-0       Thallium         7440-62-2       Vanadium         7440-66-6       Zinc         32.2       P	7439-96-5	Manganese		_		
7440-09-7 Potassium  7782-49-2 Selenium  7440-22-4 Silver  7440-23-5 Sodium  7440-62-2 Vanadium  7440-66-6 Zinc 32.2 P	7439-97-6	Mercury				
7782-49-2       Selenium         7440-22-4       Silver         7440-23-5       Sodium         7440-28-0       Thallium         7440-62-2       Vanadium       13.6       U       P         7440-66-6       Zinc       32.2       P	7440-02-0	Nickel		_		
7440-22-4       Silver         7440-23-5       Sodium         7440-28-0       Thallium         7440-62-2       Vanadium       13.6       U       P         7440-66-6       Zinc       32.2       P	7440-09-7	Potassium		_		
7440-23-5       Sodium         7440-28-0       Thallium         7440-62-2       Vanadium         13.6       U         P	7782-49-2	Selenium				
7440-28-0       Thallium	7440-22-4	Silver				
7440-62-2     Vanadium     13.6     U     P       7440-66-6     Zinc     32.2     P	7440-23-5	Sodium		_		] [
7440-66-6 Zinc 32.2 P	7440-28-0	Thallium		_		[ <del></del>
7440-66-6 Zinc 32.2 P	7440-62-2	Vanadium	13.6	Ū		P
	7440-66-6	Zinc		_		
$l$ <u>Cyanide</u> $l$ $\lambda S l$		Cyanide	3.7	Ū		λS

Color Before: COLORLESS

Clarity Before: CLOUDY Texture:

Solor After: COLORLESS

Clarity After: CLOUDY

Artifacts:

bmments:

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

WG006_

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-6

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Analyte	Concentration	С	Q	M	
7429-90-5	Aluminum	1090	-		$\overline{\mathbf{p}}$	1
7440-36-0	Antimony		_		· :	
7440-38-2	Arsenic		-			
7440-39-3	Barium	77.8	В		P	
7440-41-7	Beryllium		-		'	
7440-43-9	Cadmium					ĺ
7440-70-2	Calcium					
<u>74<b>4</b>0-47-3</u>	Chromium					
7440-48-4	Cobalt	8.8	<u>U</u>		<u>P</u>	
7440-50-8	Copper		l			
7439-89-6	Iron	1460	l		<u>P</u>	į
74 <b>3</b> 9-92-1	<u>Lead</u>				l	
7439-95-4	Magnesium	30000	_		<u>P</u>	ţ
7439-96-5	<u>Manganese</u>	127	_		<u>P</u>	
<b>743</b> 9-97-6	Mercury		_		<u> </u>	
7440-02-0	Nickel		_			
7440-09-7	Potassium		_		<u> </u>	
<u>77<b>8</b>2-49-2</u>	Selenium		<u> </u>			
7440-22-4	Silver		_			
7440-23-5	Sodium		_	ļ		
7440-28-0	Thallium		_		<u> </u>	
7440-62-2	Vanadium	13.6	<u>U</u>		P_	ļ
7440-66-6	Zinc	12.0	B		P_	į
	Cyanide	3.7	<u>U</u>	ļ	<u>λs</u>	

plor Before: COLORLESS

Clarity Before: CLOUDY

Texture:

Tolor After: COLORLESS

Clarity After: CLOUDY

Artifacts:

bmments:

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

WG008_

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WΛTER

Lab Sample ID: 798-8

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Analyte	Concentration	С	Q	М	
7429-90-5	Aluminum	48.9	U		P	
7440-36-0	Antimony		_			1
7440-38-2	Arsenic					
7440-39-3	Barium	67.2	В		P	Į
7440-41-7	Beryllium				l	
7440-43-9	Cadmium					
7440-70-2	Calcium		_		<b></b>	
7 <b>4</b> 40-47-3	Chromium		_		ļ	
7 <b>4</b> 40-48-4	Cobalt	8.8	U		P	-
7440-50-8	Copper		_		<b> </b>	
7439-89-6	Iron	44.1	<u>B</u>		P_	
7 <b>4</b> 39-92-1	Lead	<u> </u>	<b> </b>			ļ
7439-95-4	Magnesium	28500	<b> </b> _	ļ <del></del>	<u>P</u>	-
7439-96-5	Manganese	100	_		<u>P</u>	ļ
7 <b>4</b> 39-97-6	Mercury		_	ļ	ļ	-
7440-02-0	Nickel		_	ļ	ļ	ļ
7440-09-7			-		ļ	
7782-49-2	Selenium		1_	ļ	<b> </b>	
7440-22-4	Silver		_			-
7440-23-5			-			ļ
7440-28-0	<u>Thallium</u>		_	ļ	ļ	
7 <b>4</b> 40-62-2	<u>Vanadium</u>	13.6	U	l	P	
7440-66-6	Zinc	19.4	<u>B</u>	<b> </b>	P	1
	<u>Cyanide</u>	ļ	<b> </b> _	ļ	l	1

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

olor After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:

SAMPLE NO.

1 INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

WG009_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-9

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Analyte	Concentration	С	Q	М	
7429-90-5	Aluminum	327	-		$\overline{P}$	1
7440-36-0	Antimony					I
7440-38-2	Arsenic					
7440-39-3	Barium	409	l_		1,	
7440-41-7	Beryllium		_ ]			
7440-43-9	<u>Cadmium</u>					
7440-70-2	Calcium		ļ	<del></del>	ļ	1
7 <b>44</b> 0-47-3	Chromium		_		ļ	
7440-48-4	Cobalt	8.8	<u>U</u> :		<u>P</u>	-
7440-50-8	Copper		ļ <u> </u>	, - <del></del>	ļ	1
7439-89-6	Iron	21.8	<u>B</u>	ļ <del></del>	P	-
7 <b>43</b> 9-92-1	Lead		<u> </u>		ļ	+
7439-95-4	Magnesium	129	U	ļ <del></del>	<u>P</u>	ļ
7439-96-5	Manganese	1.0	U		<u>P</u>	1
7 <b>43</b> 9-97-6	Mercury		-		ļ	-
7440-02-0	Nickel		-	ļ	·	.
7440-09-7	Potassium		-	ļ	·	.
7 <b>78</b> 2-49-2	·		_	ļ	· <del> </del>	.
7440-22-4	Silver		-	ļ		٠
7440-23-5	Sodium		-	ļ <del></del>	· <del> </del>	- }
7440-28-0	Thallium	10.5	-		1=	٠ إ
7440-62-2	Vanadium	13,6	U		. <u>P</u>	٠
7440-66-6	Zinc	47.9	-		<u> P</u>	٠ {
l	Cyanide		1_	ļ	.	.

olor Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:

INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

WG010

SAMPLE NO.

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): ₩λΤΕR

Lab Sample ID: 798-10

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	λnalyte	Concentration	С	Q	M	
7429-90-5	λluminum	48.9	Ū		$\overline{P}$	
7440-36-0	Antimony					1
7440-38-2	Arsenic					
7440-39-3	Barium	102	<u>B</u>		P	
7440-41-7	Beryllium					I
7440-43-9	Cadmium				l	
7440-70-2	Calcium		_			
<del>7440-47-3</del>	Chromium		_			
7440-48-4	Cobalt	8.8	U		<u>P</u> _	
7440-50-8	Copper		ļ_		ļ	
7439-89-6	Iron	5.3	<u>B</u>	ļ	<u>P</u> _	
<del>7<b>43</b>9-92-1</del>	Lead		_	ļ	ļ	
7439-95-4	Magnesium	8520	_	\ <del></del>	<u>P</u>	
7439-96-5	Manganese	1.0	U		P	
7 <b>43</b> 9-97-6	Mercury		_		ļ	1
7440-02-0	Nickel	,	ļ_		ļ	
7440-09-7	Potassium		_			
7782-49-2	Selenium		_			
7440-22-4	Silver		_		ļ	-
7440-23-5	Sodium	İ	ļ	ļ	<b> </b> —	
7440-28-0	Thallium		-		ļ	
7 <b>44</b> 0-62-2	<u>  Vanadium</u>	13.6	U		<u>P</u>	
7 <b>44</b> 0-66-6	Zinc	16.8	$\mid \mathbf{B} \mid$	ļ	<u>P</u>	.
1	<u>Cyanide</u>		<b> </b> _	l	l	.

Color Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS

Clarity After: CLEAR

Artifacts:

comments:

SAMPLE NO.

1

INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

WG011_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-11

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS	No.	Analyte	Concentration	С	Q	M
7429	-90-5	Aluminum	48.9	<u>U</u>		P
7440	-36-0	<u> Λntimony</u>		_		-
7440	-38-2	Arsenic		ļ		-
7440	<del>-39-3</del>	Barium	36.8	<u>B</u>		-   <u>P</u>
7440	1-41-7	Beryllium			ļ	-
7440	1-43-9	Cadmium		_		-
7440	70-2	Calcium		ļ —	ļ	-
7440	0-47-3	Chromium		-	i	-
7440	0-48-4	Cobalt	8.8	<u>U</u>		_   <u>P</u>
7440	0-50-8	Copper		_		_
7435	9-89-6	Iron	5.3	<u>U</u>		_   P
7439	9-92-1	Lead		_	l	_
7439	9-95-4	Magnesium	65000	.		<u> P</u>
7439	9-96-5	Manganese	1.0	U	ļ	_   <u>P</u>
743	9-97-6	Mercury		-	ļ	-
744	0-02-0	Nickel		.	1	_
744	0-09-7	Potassium		.	ļ	_
228	<u>2-49-2</u>	Selenium		.	ļ	
744	0-22-4	Silver		.   _		_
744	0-23-5	Sodium		-		_
744	0-28-0	Thallium		.	.	_
744	0-62-2	Vanadium	13.6	<u>   U</u>	•	_   <u>P</u> _
744	0-66-6	Zinc	3.2	<u> </u>		_ <u>  P</u>
		<u>Cyanide</u>		-   _	.	l

olor Before: COLORLESS

Clarity Before: CLEAR Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Contract: DAY ENG.

WG012_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Name: GENERAL TESTING CORP.

Lab Sample ID: 798-12

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	λnalyte	Concentration	C	Õ	M
7429-90-5	Aluminum	51.6	В	·	$\overline{P}$
7440-36-0	Antimony				
7440-38-2	Arsenic				
7440-39-3	Barium	107	<u>B</u>		<u>P</u>
7 <b>4</b> 40-41-7	Beryllium		<u> </u>		
7 <b>44</b> 0-43-9	Cadmium		_		
<u>7440-70-2</u>	Calcium		_		
7 <b>4</b> 40-47-3	Chromium		<u> </u>		<u>                                     </u>
7 <b>4</b> 40-48-4	Cobalt	8.8	<u>U</u>		<u>P</u>
7440-50-8	Copper				l
7 <b>4</b> 39-89-6	Iron	26.5	<u>B</u>		<u>P</u>
7 <b>4</b> 39-92-1	Lead		l		
7439-95-4	Magnesium	153	<u>B</u>		<u>P</u>
7439-96-5	Manganese	1.0	<u>U</u>		<u>P</u>
7 <b>4</b> 39-97-6	Mercury		l		
7 <b>4</b> 40-02-0	Nickel				
7440-09-7	Potassium				
7 <b>7</b> 82-49-2	Selenium_				<u> </u>
7 <b>4</b> 40-22-4	<u>Silver</u>				
<u>7440-23-5</u>	Sodium		_		
<u>7440-28-0</u>	Thallium				
7 <b>4</b> 40-62-2	Vanadium	15.6	B		P
7440-66-6	Zinc	4.0	B		$\overline{P}$
ļ	<u>Cyanide</u>				

Color Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS

Clarity After: CLEAR

Artifacts:

comments:

SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

WG013_

Lab Code: 10145 Case No.: SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Lab Sample ID: 798-13

Level (low/med): LOW

Date Received: 02/25/93

% Solids:

0.0

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

CAS No.	Analyte	Concentration	C	Q	M	•
7429-90-5	Aluminum	48.9	Ū		P	
7440-36-0	Antimony		-			1
7440-38-2	Arsenic		-			Ī
7440-39-3	Barium	1.1	U		P	
7440-41-7	Beryllium					I
7440-43-9	Cadmium					Ī
7440-70-2	Calcium					I
<del>7<b>44</b>0-47-3</del>	Chromium		_		l	1
7440-48-4	Cobalt	8.8	<u>U</u>		<u>P</u>	
7440-50-8	Copper		_			
7439-89-6	Iron	5.3	U	ļ	P	
7 <b>43</b> 9-92-1	Lead	<u> </u>	_			1
7439-95-4	Magnesium	129	U	<u> </u>	<u>P</u>	
7439-96-5	Manganese	1.0	U	l	<u>P</u>	
7439-97-6	Mercury		<u> </u> _	l	l	.
7440-02-0	Nickel		_		l	
7440-09-7	Potassium		_		l	. [
7782-49-2	Selenium		_		l	.
7440-22-4			_		ļ	.
7440-23-5	Sodium		1_		<b> </b>	.
7440-28-0	Thallium		_		·	.
7440-62-2	<u>Vanadium</u>	13.6	U		<u>P</u>	.
7440-66-6	Zinc	2.8	U		P	-
	<u>Cyanide</u>		1_		.	_

Color Before: COLORLESS Clarity Before: CLEAR Texture:

olor After: COLORLESS

Clarity After: CLEAR

Artifacts:

omments:



Job #: R93/0798

SECTION C

SURROGATE SUMMARY

### 2A WATER VOLATILE SURROGATE RECOVERY

mab Name: GENERAL TESTING

Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

EPA   S1   S2   S3   OTHER   TOT   SAMPLE NO.   (TOL)#  (BFB)#  (DCE)#    OUT					<del> </del>		·
01   VBLK01   99   98   99   0   0   02   VBLK01MS   99   100   96   0   0   0   0   0   0   0   0   0		EPA	'				TOT
01   VBLK01   99   98   99   0   0   02   VBLK01MS   29   100   96   0   0   0   0   0   0   0   0   0		SAMPLE NO.	l(TOL)#	(BFB)#	F(DCE)#	ţ	OUT
02   VBLK01MS         99   100   96   0           03   WG001         98   98   102   0           04   WG001MS         104   102   97   0           05   WG001MSD         102   101   100   0           06   WG002         100   99   101   0           07   WG003         99   100   100   0           08   WG004         100   101   100   0           09   WG005         102   104   100   0           10   WG006         97   99   100   0           11   WG007         98   100   101   0           12   13   100   101   101   0           15   10   10   101   101   0           12   10   101   101   0           21   10   10   101   101   0           22   10   10   101   101   0           23   10   10   101   101   0           24   10   10   101   101   100   0           25   10   10   101   100   101   101   100   0           26   27   10   101   101   100   101   100   0			======	======	=====	†=====	† = = = †
03   WG001   98   98   102   0   0   0   0   0   0   0   0   0			99	98	99	1	\$ 0 I
04   WG001MS   104   102   97   0   0   05   WG001MSD   102   101   100   0   0   0   0   0   0   0			99	100	96	1	0 1
05   WG001MSD   102   101   100   0   0   0   0   0   0   0	0 <b>3</b>	·	98	98	102	<b>\$</b>	1 0 i
06   WG002   100   99   101   0   0   07   WG003   99   100   100   0   0   0   0   0   0   0	04		104	102	97	1	i o i
07   WG003   99   100   100   0   0   08   WG004   100   101   100   0   0   101   100   0	0 <b>5</b>	WG001MSD	102	101	100	}	101
08   WG004	0 <b>6</b>	<b>W</b> G002	100	99	101	ļ	0 1
08   WG004   100   101   100   0   0   109   WG005   102   104   100   0   101   100   0   101   100   0	0 <b>7</b>	<b>W</b> G003	99	100	100	‡	101
09   WG005   102   104   100   0   10   WG006   97   99   100   0   11   WG007   98   100   101   0   12	0 <b>8</b>	WG004	100	101	100	ļ	'
10   WG006   97   99   100   0   11   WG007   98   100   101   0   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101   101	O <b>9</b>	<b>W</b> G005	102	104	100		
11   WG007   98   100   101   0   13   13   14   15   15   16   17   18   19   19   10   10   10   10   10   10	1 <b>0</b>	<b>W</b> G006	97	99	1.00	ŀ	. "
12		,	98	100	101	· ł	
14   15   16   17   18   19   19   19   19   19   19   19					l	ļ	i
15   16   17   18   19   19   19   19   19   19   19			;			1	1 1
16   17   18   19   19   19   19   19   19   19			!			, <del></del> _	,,
17  18  19  20  21  22  23  24  25  26  27  28  29					ļ		ii
17	•				l		1
19   20   21   22   23   24   25   26   27   28   29							i
20					l	l	ļ ļ
21					l	l	11
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2 3			!		l		ļļ
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25							1 1
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28 29					·		ł I
29	,	·!			·		ļ ļ
· · · · · · · · · · · · · · · · · · ·							11
301	•	<del></del> !					11
	301						l l

QC LIMITS

S1 (TOL) = Toluene-d8

(88-110)(86-115)

S2 (BFB) * Bromofluorobenzene S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

# Column to be used to flag recovery values

- * Values outside of contract required QC limits
- D Surrogates diluted out

### 2CWATER SEMIVOLATILE SURROGATE RECOVERY

ab Name:GENERAL TESTING

Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

ţ	E <b>P</b> A	S1	S 2	53	54	l S5	56	OTHER	l mom
J	SAMPLE NO.	(NBZ)#	(FBP)#		PHLIM	(2FP)#	r so	OTHER	TOT
1		=====	=====	======	(   112 )	1 (212)4			OUT
011	WG00 <b>1</b>	75	75	79	28	38		=====	===
021	<b>W</b> G00 <b>1</b> MS	82	80	83	31	1 43	75	}	1 0
031	WG001MSD	81	78	76	32	43	83	•	1 0
041	<b>W</b> G00 <b>2</b>	83	76	73	35	1 43 1 44	77	•	0
05	WG00 <b>3</b>	66	66	73	29	34	96	<u> </u>	1 0
061	<b>W</b> G00 <b>4</b>	54	56	64	24	28	73	<del> </del>	0
07	WG00 <b>5</b>	68	70	71	28	31	45		f 0
180	<b>W</b> G00 <b>6</b>	75	70	74	27	30	77		1 0
09	SBLK <b>0</b> 1	77	68	74	32		62		0
101	SBLK01MS	86	75	75 1	39	46	86		10
11	· · · · · · · · · · · · · · · · · · ·	1	, 5	, j	33	54	94	1	0
121		·		'		·	·	· <del></del>	!
				†	t	·			
14		i		·		' —			<u> </u>
151						<u> </u>			
16					†	'	·	· <del></del> -	
17		ļ							
18									· !
19				1	†		<u> </u>		
201			1						· !
21	{			1			<del> </del>	!	·
221				1	1	†	f		· !
231				1				<del> </del>	<del>!</del>
241.									·!
25						†			<del> </del>
261				i		t	<del>}</del>	<del> </del>	·
271.									<del> </del>
			i			<u>†</u>		<u> </u>	!
291.				1				<u> </u>	<u>†</u>
301							<u>†</u>	<del>}</del>	<del>}</del>

```
QC LIMITS
S1 (NBZ) = Nitrobenzene-d5
                                 (35-114)
S2 (FBP) = 2-Fluorobiphenyl
                                 (43-116)
S3 (TPH) = Terphenyl-d14
                                 (33-141)
S4 (PHL) = Phenol-d5
                                 (10-94)
S5 (2FP) = 2-Fluorophenol
                                 \{21-100\}
S6 (TBP) = 2,4,6-Tribromophenol
                                 (10-123)
```

[#] Column to be used to flag recovery values

^{*} Values outside of contract required QC limits

D Surrogates diluted out



Job #: R93/0798

SECTION D

MS/MSD

WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix Spike - EPA Sample No.: WG001

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENT.	CONCENT.	%	LIMITS
	(ug/l)	(ug/l)	(ug/l)	REC #	% REC.
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50 50	0 0 0 0 0	49 44 48 49 48	98 88 96 98 98	61-145 71-120 76-127 76-125 75-130

COMPOUND	SPIKE ADDED (ug/1)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
l,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50	51 46 49 49 49	102 92 98 98 98	4 4 2 0 2	14 14 11 13	61-145 71-120 76-127 76-125 75-130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

0 out of 5 outside limits.

Spike Recovery: 0 out of 10 outside limits.

•	$\sim$	11	18	7	RII	ľS	
L	u	Ivi	1"1	г.	1.4	$\sim$	_

## WATER VOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

b Name: GENERAL TESTING CORP. Contract: DAY ENG.

trix Spike - EPA Sample No.: VBLK01MS

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENT.	CONCENT.	%	LIMITS
	(ug/1)	(ug/l)	(ug/l)	REC #	% REC.
1-Dichloroethene Trichloroethene enzene pluene Chlorobenzene	20 20 20 20 20 20	0 0 0 0	23 21 22 22 22	115 105 110 110 110	61-145 71-120 76-127 76-125 75-130

омроино	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/1)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
,1-Dichloroethene richloroethene enzene Poluene hlorobenzene					14 14 11 13	61-145 71-120 76-127 76-125 75-130

Column to be used to flag recovery and RPD values with an asterisk Values outside of QC limits

0 out of 0 outside limits. pike Recovery: 0 out of 5 outside limits.

OMMENTS:	
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FORM III VOA-2

WG001MS

"ab Name: GENERAL TESTING

Contract: DAY ENG,

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER Lab Sample ID: R93/798-1MS

mple wt/vol: 5.0 (g/mL) ML Lab File ID: >E3795

Level: (low/med) LOW Date Received: 02/25/93

Moisture: not dec.100 Date Analyzed: 3/01/93

lumn: (pack/cap) CAP Dilution Factor: 1.00000

Final extract Volume: -- (uL) Conversion Factor: 1.0000

iquot Volume: -- (uL)

CNC NO		CONCENTRATION U			
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q	
1 74 97 2		1			- · 
74-0/-3   74-02-0	Chloromethane		10.	ΙU	1
74-03-9	Bromomethane		10.	ΙU	l
/3-Ul~4- <del></del>	Vinvi Chioride	<b>†</b>	10.	ļŪ	ĺ
/ J-00-3 <del>-</del>	Chioroethane	f	10,	ΙU	1
/ / 3 ~ U 3 ~ Z ~ ~ <del>~ ~ ~ ~ ~</del>	Methylene Chlorid	۱ ۵	5.	ļŪ	ĺ
75 45 0	Acetone		10.	ţυ	İ
, /J-13-0 <del>-</del>	Carbon disulfide	1	5.	ļŪ	İ
/5-35-4 <del>-</del>	1,1-Dichloroethen	e L	49.	1	1
/5-34-3 <del>-</del> -	1.1-Dichloroethan	A 1	5.	įυ	1
156-6U-5- <del>-</del>	trans-1.2-Dichlor	nethene i	5.	ĺΰ	i
130-39-2- <del>-</del>	Cls-1.2-Dichlorne	thene	5.	Ü	i
0/-00-3 <del>-</del> -	Chloroform	1	5,	ΙÜ	1
107-02-2	1.2-Dichloroethan	9	5.	ŢÜ	
/8-93-3 <del>-</del>	2-Butanone	t	10.	10	1
\ T = 22 = 0 = - = = = = = = = = = = = = = = = =	l.1.1-Trichloroet	hane I	5.	ĬŬ	1
30-23-5	Carbon Tetrachlor	ida :	5.	lu	1
/5-2/-4 <del>-</del>	Bromodichlorometh	ana i	5.	iu	- 1
/8-8/-5- <del></del>	1,2-Dichloropropa	ne l	5.	ļŪ	1
TOODI-01-2	C15-1.3-Dichloron	ronene l	5.	10	1
/9-01-6	Trichloroethene	t	44.	10	1
	Dibromoch Lorometh	ana 1	* * · · · · · · · · · · · · · · · · · ·	i U	1
/ 3 - 0 0 - 5	1.1.2-Trichloroet	hane I	5. 5.	Į U	1
/ 1 - 4 3 - 2	Benzene	1	48.	10	1
10001-02- <b>6</b>	trans-1.3-Dichlor	onronana i	5.	† • • • •	1
/ 3 - 2 3 - 2	Bromoform	1	5. 5.	Į U	!
T 0 0 - T 0 - T	4-Methvl-2-nentan	one I		ΙU	1
JJ1-/0-0		1	10.	Į U	
12/-18-4- <del>-</del>	Tetrachloroethene		10.	ļU	
/ 9-34-5	1.1.2.2-Tetrachlo	roothana 1	5.	ļυ	
108-88-3	Toluene	LOG CHARG	5.	in	ļ
108-90-7	Chlorobenzene		49,	<u> </u>	[
100-41-4	Ethylbenzene		48.	<del> </del>	!
100-42-5	Styrene	· · · · · · · · · · · · · · · · · · ·	5.	ļŪ	1
133-02-7	(m+p)Xylene		5.	ļŪ	ı
133-02-7	O-XAJene		5.	ΙU	1
·	o warene		5.	IU	1
				1	1

| VBLK01MS

Name:GENERAL TESTING Contract:DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

etrix: (soil/water) WATER

Lab Sample ID: REF01

5 hple wt/vol:  $5.0 ext{ (g/mL) ML}$ 

Lab File ID: >E3789

evel: (low/med) LOW

Date Received: --/--/--

oisture: not dec.100

Date Analyzed: 3/01/93

Lalumn: (pack/cap) CAP

Dilution Factor: 1.00000

_hal extract Volume: -- (uL)

Conversion Factor: 1.0000

F = quot Volume: -- (uL)

CONCEN	TRA	ALTON	UN	ITS:
(ug/L	or	ug/Kg	)	UG/L

CAS NO.		g/L or ug/Kg) UG		Q .
74-87-3	Chloromethane		23.	
74-83-9 <del>-</del>	Bromomethane		20,	, , , , , , , , , , , , , , , , , , ,
75-01-4	Vinyl Chloride	,	21.	1 1
75-00-3	Chloroethane	<del></del> ;	23.	, , , , ,
75-09-2	Methylene_Chloride_	·	21.	i
	Acetone		12.	i
	Carbon disulfide		12.	i
	1,1-Dichloroethene_		23.	i
75-34-3	1,1-Dichloroethane_		20.	i i
156-60-5	trans-1,2-Dichloroe	thene	21.	1 1
156-59-2	cis-1,2-Dichloroeth	enet	5.	ĬU I
67-66-3	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		21.	1 1
107-02-2	1,2-Dichloroethane_		22,	i i
78-93-3 <del>-</del>	2-Butanone	1	16.	1 1
71-55-6	1,1,1-Trichloroetha	ne!	22,	]
56-23-5	Carbon Tetrachlorid	le	22.	1 1
75-27-4	Bromodichloromethan	.e1	22.	1 1
78-87-5 <del>-</del>	1,2-Dichloropropane	· <b>t</b>	23.	1 1
10061-01-5	cis-1,3-Dichloropro	penel	20.	1 1
79-01-6	Trichloroethene	t	21.	1 1
124-48-1	Dibromochloromethan	le1	22.	1
1 79-00-5	1,1,2-Trichloroetha	.ne!	22,	1 1
71-43-2	Benzene	l	22.	1 1
	trans-1,3-Dichlorop		23.	1 1
	Bromoform		22.	1
108-10-1	4-Methyl-2-pentanon	.e	22.	1 1
591-78-6- <del>-</del> -	2-Hexanone	l	16.	1 1
127-18-4	Tetrachloroethene	t	22,	1 1
1 79-34-5	1,1,2,2-Tetrachloro	ethane	23.	1 1
108-88-3	Toluene	I	22.	1 1
108-90-7	Chlorobenzene	t	22.	1
100-41-4	Ethylbenzene	ŧ	25.	1 1
100-42-5	Styrene	1	19.	1
1 133-02-7	(m+p)Xylene	I	5.	ĬŪ
133-02-7	o-Xylene		19.	ļ
	<del></del>		<del></del>	l

WATER SEMIVOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix Spike - EPA Sample No.: WG001

COMPOUND	SPIKE	SAMPLE	MS	MS	QC
	ADDED	CONCENT.	CONCENT.	%	LIMIT
	(ug/l)	(ug/l)	(ug/l)	REC #	% RI
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-Di-n-Prop.(1) 1,2,4-Trichlorobenzene 4-Chloro-3-Methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene	200 200 100 100 100 200 100 200 100 200	0 0 0 0 0 0 0 0	58 140 72 85 70 130 82 76 92 66 86	29 70 72 85 70 65 82 38 92 33	12-11 12-12 36- 9 41-11 39- 9 23- 9 46-11 10- 8 24- 9

COMPOUND	SPIKE ADDED (ug/1)	MSD CONCENT. (ug/1)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
Phenol	200	62	31	7	42	12-110
2-Chlorophenol	200	140	70	0	40	12-123
1,4-Dichlorobenzene	100	74	74	3	28	36- 97
N-Nitroso-Di-n-Prop.(1)	100	88	88	3	38	41-116
1,2,4-Trichlorobenzene	100	72	72	3	28	39- 98
1-Chloro-3-Methylphenol	200	130	65	0	42	23- 97
Acenaphthene	100	83	83	1	31	46-118
4-Nitrophenol	200	81	41	6	50	10- 80
2,4-Dinitrotoluene	100	89	89	3	38	24- 96
Pentachlorophenol	200	72	36	9	50	9-103
Pyrene	100	81	81	6	31	26-127

⁽¹⁾ N-Nitroso-di-n-propylamine

RPD: 0 out of 11 outside limits.

Spike Recovery: 0 out of 22 outside limits.

COMMENTS:

[#] Column to be used to flag recovery and RPD values with an asterisk Values outside of QC limits

#### WATER SEMIVOLATILE MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

ab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

-Matrix Spike - EPA Sample No.: SBLK01MS

COMPOUND	SPIKE ADDED (ug/l)	SAMPLE CONCENT. (ug/1)	MS CONCENT. (ug/l)	MS % REC #	QC LIMIT % RE
Phenol	200	0	72	36	12-11
2-Chlorophenol	200	0	150	75	27-12
,4-Dichlorobenze <b>n</b> e	100	0	75	75	36 <b>-</b> 9
	100	0	92	92	41-11
1,2,4-Trichlorobenzene	100	О	72	72	39- 9
-Chloro-3-Methyl <b>p</b> henol	200	О	140	70	23- 9
cenaphthene	100	0	77	77	46-11
4-Nitrophenol	200	0	92	46	10- 8
🚅,4-Dinitrotol <b>uene</b> 💢	100	0	94	94	24- 9
entachlorophenol	200	0	110	55	9-10
Pyrene	100	0	78	78	26-12

COMPOUND	SPIKE ADDED (ug/l)	MSD CONCENT. (ug/l)	MSD % REC #	% RPD #	QC RPD	LIMITS %REC
Phenol 2-Chlorophenol 1,4-Dichlorobenzene N-Nitroso-Di-n-Prop.(1) 1,2,4-Trichlorobenzene 1-Chloro-3-Methylphenol Acenaphthene 4-Nitrophenol 2,4-Dinitrotoluene Pentachlorophenol Pyrene					42 40 28 38 28 42 31 50 38 50 31	12-110 27-123 36 -97 41-116 39- 98 23- 97 46-118 10- 80 24- 96 9-103 26-127

⁽¹⁾ N-Nitroso-di-n-propylamine

Spike Recovery: 0 out of 11 outside limits.

COMMENTS: ___

[#] Column to be used to flag recovery and RPD values with an asterisk Values outside of QC limits

RPD: 0 out of 0 outside limits.

ab Name: GENERAL TESTING Contract: DAY ENG.

| SBLK01MS

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

Lab Sample ID: REF01

ample wt/vol: 1000 (g/mL) ML

Lab File ID: >D9495

Level: (low/med) LOW

Date Received: --/--

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

PC Cleanup: (Y/N) N pH:---

Date Analyzed: 3/02/93

Final Extract Volume:1 (uL)

Dilution Factor: 1.00000

njection Volum**e**: 1 (uL)

Conversion Factor: 1.0000

CAS NO.	COMPOUND	CONCENTRA (ug/L or	ATION UNIT ug/Kg) UC	75: 5/L		Q
   108-95-2 <b>-</b>	Phenol					
1 111-44-4	hig( 2 Chl	ath. 1 \ max	<u>†</u>	72.	ļ	
				10.	1 U	
				150.	ł	
				10.	ļŪ	
				75.	ł	
				10.	† U	
				10.	Į U	
		l)		10,	U	
				10.	įυ	
				92. 10.	Ì	
					Į U	
				$\frac{10}{10}$ .	ŧυ	
				10.	Į U	
				10.	Į U	
				10.	∤U	
				10.	U	
					ļυ	
				72.	1	
				10.	†U	İ
				10. 10.	ļυ	
				10. 140.	ļυ	į
	・ニーニーノーMPTNVINっちんもん	<b>- 1</b>		10.	1	
				10.	Į U	!
				10.	U	!
					ΙÜ	!
				50.	Į U	1
				10.	ŀÜ	- 1
				50.	ļŪ	ļ
				10.	ļυ	ļ
606-20-2	2,6-Dinitrotol	uene	I 	10.	ļU	!
			I	10.	1 U	J

ab Name: GENERAL TESTING Contract: DAY ENG.

SBLK01MS

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

ample wt/vol: 1000 (g/mL) ML Lab File ID: >D9495

Lab Sample ID: REF01

Level: (low/med) LOW

Date Received: --/--/--

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

PC Cleanup: (Y/N) N pH:--- Date Analyzed: 3/02/93

inal Extract Volume:1 (uL) Dilution Factor: 1.00000

ijection Volum**e:** 1 (uL)

Conversion Factor: 1.0000

CAS NO. COMPOUND	CONCENTR	ATION UN	ITS:	
CAS NO. COMPOUND	(ug/L or	ug/Kg)	UG/L	Q
99-09-23-Nitroanil	ino	1	_	
- OJ Ja-JACANARAHAN	a		50.	ļŪ
			77.	1
- エリリーリムーノーーーーーー 4 - Nitranhan	a 1		50.	ļŪ
102 01 July 20 11 11 11 11 11 11 11 11 11 11 11 11 11	<b>Y</b> 1		92.	‡
- ~ 4 * - * * - * *	to lugace		10.	ĮŪ
or co-z	alako	1	94.	<b>.</b>
, , , , , , , , , , , , , , , , , , ,	MILL Shower I.L.		10.	ĮU
00-/3-/			10.	łu
	1 1 2		10.	ţυ
JJZ-JZ-1	2 makh. 1	• .	50,	† U
86-30-6N-Nitrosodi	-z-methylpheno.	ri	50.	łU
101-55-34-Bromophen	phenylamine (I	)!	10.	10
118-74-1	yr-buenyrether	<u> </u>	10.	ļυ
87-86-5	enzene	!	10.	†U
85-01-8Phenanthren	bueuoT	!	110.	ļ
120-12-7Anthracene_	e		10.	ļυ
86-74-8			10.	↓U
84-74-2		<del> </del>	10.	↓U
84-74-2	ntnalate	!	10.	Į U
206-44-0Fluoranthene 129-00-0	9	1	10.	Į U
85-68-7	1	+	78.	+
85-68-7	L_phthalate	}	10.	↓U
91-94-13,3'-Dichlor 56-55-3	cobenzidine	<del>†</del>	20.	ļŪ
56-55-3Benzo(a)Anth 218-01-9Chrysene	iracene	<del> </del>	10.	Į U
117-81-7 Pi-/2 Ph		<del> </del>	10.	U
117-81-7Bis(2-Ethylk	nexyl)Phthalate	·1	10.	IU
117-84-0	hthalate	I	10,	Ü
3 5 5 5 6 = "	\		10.	Ü
			10.	ίŭ
	N PO A		10.	įυ
			10.	ĺΰ
o , o spipenzia nia	nthragana	t t	10.	ΙŬ
191-24-2Benzo(g,h,i)	Perylene	<u></u> !	10.	ίŭ
) - Cannot b <b>e</b> separated from	Diphenylamine	<del> </del>	000	_ <del> </del>

000066

### 5A SPIKE SAMPLE RECOVERY

SAMPLE NO.

WG001_S

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145

Case No.:

SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample:

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

Analyta	Control Limit %R	Spiked Sample Result (SSR)	С	Sample	C	Spike Added (SA)	<b>9</b> 6]	D		16
Analyte	6 K	Result (SSR)	C	Result (SR)		Added (SA)	6.	K	Q	M
Aluminum			$\top$	1					-	NR
Antimony			-							NR
Arsenic			-							NR
Barium			-		_				-	NR
Beryllium			-		-			· · · · · · ·	-	NR
Cadmium			-		-				<del>-</del>	NR
Calcium			-		_		-		-	NR
Chromium			-		_				_	NR
Cobalt			1-		_				<del>-</del>	NR
Copper			-1-						-	NR
Iron			-1-						-	NR
Lead					_				-	NR
Magnesium					_				]_	NR
Manganese									_	NR
Mercury										NR
Nickel										NR
Potassium			1_							NR
Selenium	. [		_		_		l			NR
Silver					l				l_	NR
Sodium	.		_   _		Ì		l		l_	NR
Thallium			_   _				l			NR
Vanadium			_   _		_				_	NR
Zinc	.		_		_				1_	NR
Cyanide	7 <b>5</b> -125	99.6150	)	3.7000	U	100.00	1	99,6		λS

Comments:

### 5A SPIKE SAMPLE RECOVERY

SAMPLE NO.

WG008_S

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

10005_5

Lab Code: 10145

Case No.:

SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

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

۱ ۱									
	Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR)	C	Sp <b>ike</b> Added (SA)	%R	Q	М
	Aluminum	7 <b>5-12</b> 5	2058.6667	48.9000	<u>u</u>	2000.00	102.9		<u>P</u>
	Antimony Arsenic								NR NR
	Barium	75-125	2112.0000	67.2000	B	2000.00	102.2	_	P_NR
	Beryllium Cadmium				_ _				<u>NR</u>
	Calcium Chromium				-			_	NR NR
	Cobalt	7 <b>5-12</b> 5	508,8000	8,8000	<u>ū</u>	500.00	101.8	-	P NR
	Copper Iron	7 <b>5</b> -125	1061.3333	44.1000	B	1000.00	101.7	-	P
	Lead Magnesium	7 <b>5</b> -125	39660.0000	28513.3330	  -	10000.00	111.5	_	NR P
!	Manganese	7 <b>5-1</b> 25	601.8000	100.2000	-	500.00	100.3	-	P NR
	Mercury Nickel				_			-	NR
	<u>Potassium</u> Selenium				<u> </u> _			-	NR NR
	Silver Sodium				-			-	NR NR
	Thallium		5.20.20.00	12 6000	-	500.00	106.0	1-	NR
	Vanadium Zinc	7 <b>5-1</b> 25 7 <b>5-</b> 125	530.0000	13.6000 19.3667	1	•	7		P P
	Cyanide		-		1_			.   _	NR

Comments:

5B

### POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

WG008_A

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.:

SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR)		Spike Adđed (SA)	%R	Q	M
Aluminum		1786.33	48.90	U	2000.0	89.3	<u> </u>	P
Antimony				_				NR
Arsenic								NR
<u>Barium</u>		1814.33	67.20	<u>B</u>	2000.0	87.4		P
Beryllium							ļ <u> </u>	NR
Cadmium							_	NR
Calcium				_			-	NR
Chromium		140 47	0.00		F.0.0.0	9.0 1	-	NR
Cobalt		440.47	8.80	П	500.0	88.1	<del> </del> -	P ND
Copper		951.70	44.10		1000.0	90.8	-	NR P
Lead			11,10	므	1000.0		-	NR
Magnesium_		34736.67	28513.33		10000.0	62.2	-	P
Manganese_		530.40	100.20	_	500.0		_	P
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver							_	NR
Sodium	.		.			ļ	<b> </b> _	NR
Thallium	.	·		-			ļ —	NR
Vanadium	.	460.87	13.60		500.0		<b> </b> -	<u>P</u>
Zinc	.	467.40	19.37	В	500.0	89.6	-	P_
Cyanide	.			<b> </b>	ļ	l	l	NR

Comments:

6 DUPLICATES SAMPLE NO.

WG001_D

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.:

SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Level (low/med): LOW

~ % Solids for Sample: 0.0

% Solids for Duplicate: 0.0

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

	Control							١
Analyte	Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum			7-1					_
Antimony			_   _		_		1_	ļ_
Arsenic	<u> </u>		_   _		_   _		1_	-
Barium			_ _		_   _		1_	<u> </u> _
Bervllium			_ _		_   _	ļ		_
<u>Cadmium</u>			-		_ -		-	<b> </b>
<u>Calcium</u>			-		_ _	<u> </u>	.   _	-
Chromium			-		_ -	<u> </u>	<b>    _</b>	ļ
Cobalt	l		-		-	ļ	_	-
Copper	l		-   -		-   -		_	ļ_
Iron	l		_   _		_ -	ļ ———	\	- ∤
Lead	!	**************************************	_   _		_   _	ļ	<b> </b>	·
Magnesium			-   -	ļ <del></del>	- -		<b>                                     </b>	- } -
<u>Manganese</u>			- -	<u> </u>			<b>↓                                    </b>	. ∤ –
Mercury			- -				—	·   —
<u>Nickel</u>			_		-1-1	<del></del>	<b>∤                                    </b>	.
Potassium	l		-		- -	<del></del>		·
<u>Selenium</u>	I		- -			ļ	<del> </del>	·
Silver	1		- -			<del> </del>	<b>∤                                    </b>	·   -
Sodium	[ ·		- -		-   -	ļ ———	<del> </del>	- } -
Thallium			- -		-	<del> </del>	<del> </del>	-   -
Vanadium	<b> </b>		-	·	- -	ļ	<del>   </del>	-   -
Zinc	<b> </b>		-		- -	ļ	<b>∤ }</b> −	. } -
Cyanide	l	3.7000	_  <u>u</u>	3.7000	_ U	\	11-	.   2

6 DUPLICATES SAMPLE NO.

WG008_D

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.:

SAS No.:

SDG No.: WG001

Matrix (soil/water): WATER

Level (low/med): LOW

- % Solids for Sample: 0.0

% Solids for Duplicate: 0.0

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

	Control						1	
Analyte	Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		48.9000	U	48,9000			-	P
Antimony			_	\ <u></u>	1-1		. ]_:	
Arsenic			_		-	<u> </u>		<b> </b>
Barium		67.2000	B	67.7667	B	0.8	<b> </b>	<u>P</u> _
Beryllium			1-1		1-1			
Cadmium			-		-		<b>∤                                    </b>	
Calcium					-			
Chromium			-		·   <u>-</u>			=
Cobalt		8.8000	П	8.8000	.   밀		-	P_
Copper	·	11.1000	$ \overline{\underline{\mathbf{B}}} $	10 6667	-   =	91 0	<del> </del>	77
Iron	·	44.1000	ㅂ	18,6667	.   ₿	81.0		P
Lead	·	20512 2220	-	29103.3330	-	2.0		D
Magnesium	·	28513.3330	-	102.7000	-	2.5	-	P P
Manganese		100.2000	1-1	102.7000	·   —		-	5
Mercury Nickel	·		1-1		-		-	
Potassium	·				-		1 1 -	·
Selenium					-		-	
Silver			-		-		-	
Sodium	-   <del></del>		1-1		-		_	-
Thallium	-		1-1		-   -	1		
Vanadium		13.6000	<u>ט</u>	13.6000	שׁ			<u>P</u>
Zinc	20.0	19.3667	$ \underline{\underline{\mathbf{B}}} $	20.7000		6.7		P
Cyanide					-1-1		[ [_	l



Job #: R93/0798

SECTION E

BLANK DATA

### VOLATILE METHOD BLANK SUMMARY

ab Name: GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Lab File ID: >E3788

Lab Sample ID: BLK01

te Analyzed: 3/01/93

Time Analyzed: 9:23

Matrix: (soil/water) WATER

Level: (low/med) LOW

C Column : Rtx-502 ID- 0.53 mm

nstrument ID: MS5

Heated Purge (Y/N) N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

•				
1	EPA	LAB	LAB	TIME
	SAMPLE NO.	SAMPLE ID	FILE ID	ANALYZED
			=======================================	========
01	VB <b>L</b> K01MS	REF01	> <b>E378</b> 9	10:06
02	WG <b>0</b> 07	R93/798-7	>E3793	13:40
03	WG <b>0</b> 01	R93/798-1	>E3794	14:23
04	WG <b>O</b> 01MS	R93/798-1MS	>E3795	15:06
05	WG <b>0</b> 01MSD	R93/798-1MSD	>E3796	15:55
06	WG <b>0</b> 02	R93/798-2	>E3797	16:37
07	WG <b>0</b> 03	R93/798-3	>E3798	17:17
08	WG <b>0</b> 04	R93/798-4	>E3799	18:01
09	WG <b>0</b> 0 <b>5</b>	R93/798-5	>E3800	18:39
10	WG <b>0</b> 06	R93/798-6	>E3801	19:18
11	-	,		
12				
13				
14				·
15				İ İ
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COMMENTS:	
	manny

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Name:GENERAL TESTING

Contract:DAY ENG.

CONCENTRATION UNITS:

Tatrix: (soil/water) WATER

Lab Sample ID: BLK01

ple wt/vol: 5.0 (g/mL) ML

Lab File ID: >E3788

Lewel: (low/med) LOW

Date Received: --/--/--

__oisture: not dec.100

Date Analyzed: 3/01/93

: umn: (pack/cap) CAP

Dilution Factor: 1.00000

inal extract Volume: -- (uL)

Conversion Factor: 1.0000

A quot Volume: -- (uL)

CAS NO.	COMPOUND (	ug/L or	ug/Kg)	UG/L	Q	
			!			
	Chloromethane			10.	ΙU	
74-83-9	Bromomethane		!	10.	ļυ	
75-01-4	Vinyl Chloride		l	10.	ΙU	
	Chloroethane			10.	ΙU	
	Methylene_Chloride			5.	ΙÜ	
	Acetone			10.	U	
	Carbon disulfide_			5.	ΙU	
	1,1-Dichloroethene			5.	ΙU	
	1,1-Dichloroethane			5.	ΙU	
156-60-5- <b>-</b>	trans-1,2-Dichlore	ethene	!	5.	ļŪ	
156-59-2	cis-1,2-Dichloroet	hene	i	5.	l U	
67-66-3	Chloroform			5.	) U	
107-02-2	1,2-Dichloroethane	<u> </u>		5.	l U	
78-93-3	2-Butanone		1	10.	l U	
	1,1,1-Trichloroeth			5.	ΙU	
56-23-5	Carbon Tetrachlor:	ide	1	5,	l U	
75-27-4	Bromodichlorometha	ane	!	5.	Jυ	
78-87-5	1,2-Dichloropropat	ıe		5.	ΙU	
	cis-1,3-Dichloropi			5.	ΙU	
79-01-6	Trichloroethene			5.	ΙU	
	Dibromochlorometha			5.	Įυ	
	1,1,2-Trichloroeth			5.	IU	
71-43-2	Benzene		I	5.	IU	
	trans-1,3-Dichlore			5.	ΙU	
	Bromoform			5.	ĮŪ	
	4-Methyl-2-pentane			10.	Ìυ	
	2-Hexanone			10.	Ĭυ	
	Tetrachloroethene			5.	I U	
	1,1,2,2-Tetrachlo			5.	ίŪ	
	Toluene			5,	ĺΰ	
	Chlorobenzene			5.	ίŪ	
	Ethylbenzene			5.	ĬŪ	
	Styrene			5.	ĬŬ	
	(m+p)Xylene			5,	ίŪ	
	o-Xylene		i	5.	ĺΰ	

NYSDEC Sample No.: VBLK01

# 1E - VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: General Testing Corp.

Lab Code: 10145 Case No.: -Matrix: (soil/water) WATER

Sample wt/vol: 5.0 (g/mL)ML

Level (low/med): LOW % Moisture: not dec. 100 Column (pack/cap): CAP

Number TIC's found: 1

Contract: DAY ENG.

SAS No.: -- SDG No.:WG001

Lab Sample ID: BLK01
Lab File ID: >E3788

Date Received:

Date Analyzed: 03/01/93 Dilution Factor: 1.0

Concentration Units: (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1.	Unknown	4.69		J
2.				
3.				<del></del>
4.		ļ		<del></del>
_5		ļ		
6.		<del> </del>		
7.		<del> </del>		
_8,		<b></b>		
9.		·		
10.		<del> </del>		<del> </del>
11.		· <del>  ······</del>	<del></del>	
12.		1		
13.		-		
14.				
15.				
16.		<b> </b>	- <del> </del>	
18.		- <del> </del>		
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				<b></b>
28.				<b></b>
29.				<u> </u>
30,				

FORM I VOX-TIC B-103

### 4B SEMIVOLATILE METHOD BLANK SUMMARY

ab Name:GENERAL TESTING Contract:DAY ENG.

Lab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Lab Sample ID: BLK01

ate Extracted 02/26/93 Extraction: (SepF/Cont/Sonc) SEPF

Date Analyzed: 3/02/93 Time Analyzed: 16:21

atrix: (soil/water) WATER Level:(low/med) LOW

Instrument ID: MS#4

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

ĺ	EPA	I I A D		
	SAMPLE NO.	LAB	LVB	DATE
ĺ		SAMPLE ID	FILE ID	ANALYZED
01	SB <b>L</b> K01MS			=======================================
02		REF01	D9495	1 3/02/93
031		R93/798-1	>D9496	1 3/02/93
04		R93/798-1MS	>D9497	3/02/93
051		R93/798-1MSD	D9498	1 3/02/93 1
061		R93/798-2	D9499	3/02/93
07		R93/798-3	l >D9500	1 3/02/93
081	- * * *	R93/798-4	D9501	3/02/93 1
091	WG005	R93/798-5	D9502	3/03/93
10	WG000	R93/798-6	1 >D9503	1 3/03/93
111			ł	1
12			+	l
13		· ·	ł	
14			1	
151	<del></del>		+	
161			+	
17			f {	
			ł	
			ł	
			ł	
			tt	
231				
241			ł	
251				
281	·			
291	1			I
301		<del></del> .	<del></del>	
1	<del></del>  .		1	

MENTS:	
_	

#### 1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

b Name:GENERAL TESTING

Contract:DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Matrix: (soil/water) WATER

Lab Sample ID: BLK01

mple wt/vol: 1000 (g/mL) ML

Lab File ID: >D9494

Level: (low/med) LOW

Date Received: --/--/--

Moisture: not dec. 100 dec. --- Date Extracted: 02/26/93

C Cleanup: (Y/N) N

рН:---

Date Analyzed: 3/02/93

Final Extract Volume:1 (uL) Dilution Factor: 1.00000

jection Volume: 1 (uL)

Conversion Factor: 1.0000

<b>6.1 6.1 1.1 6.1</b>		CENTRATION UNITS:	
CAS NO.	COMPOUND (ug	//L or ug/Kg) UG/L	Q
100 05 2			
108-95-2		10.	ŢΠ
↓↓↓──ዿዿ──ዿ <del>──</del> ─• 95 57 0	bis(-2-Chloroethyl)E	ther	• -
53-57-0	1,3-Dichlorobenzene_	10.	ţυ
541-/3-1→ <b>-</b>	1,3-Dichlorobenzene_	10.	ŢŪ
106-46-/	1,4-Dichlorobenzene_	10.	ļU
95-50-1	1,2-Dichlorobenzene_	10.	Įυ
95-48-7	2-Methylphenol	1 10.	↓ U
108-60-1	2,2'-oxybis(1-Chloro	propane)  10.	Į U
106-44-5	4-Methylphenol	1 10.	ļυ
621-64-7	N-Nitroso-Di-n-propy	lamine  10.	ΙU
67-72-1 <del>-</del>	Hexachloroethane	10.	ΙU
98-95-3 <b>-</b> -	Nitrobenzene	1 1 0	ΙŬ
/8-59-1 <del>-</del>	Isophorone	1.0	Įυ
88-75-5- <del></del>	2-Nitrophenol	t in	ΙŪ
105-6/-9 <b></b> -	2,4-Dimethylphenol	1 10	ĮŪ
111-91-1- <del>-</del>	bis(-2-Chloroethoxv)	Methane 1 10	IU
120-83-2- <b>-</b>	2,4-Dichlorophenol	. 10.	įυ
120-82-1- <b>-</b>	1,2,4-Trichlorobenze	ne l in	
91-20-3- <b></b>	Naphthalene	1.0	ĺŪ
106-4/-8- <del>-</del>	4-Chloroaniline	1 10	įŪ
8/-68-3 <del>-</del>	Hexachlorobutadiene	1 10	įŪ
59-50-7 <b>-</b>	4-Chloro-3-methvlohe	nol 1 10	įυ
91-57-6 <del></del>	2-Methvlnaphthalene	1 10	įŪ
//-4/-4 <del>-</del>	Hexachlorocyclopenta	diene 1 in	ĺυ
88-06-2 <b>-</b>	2,4,6-Trichloropheno	1 1 10	ĺŪ
95-95-4	2,4,5-Trichloropheno	-1 50	ĮŪ
91-58-7- <del>-</del>	2-Chloronaphthalene	1 10	ĬŪ
88-/4-4 <del>-</del>	2-Nitroaniline	1 50	ĮŪ
131-11-3- <del>-</del>	Dimethyl Phthalate	1 10	ĺΰ
208-96-8- <del>-</del>	Acenaphthylene	<b>f</b> 1 n	ļŪ
506-20-2- <del>-</del> -	2,6-Dinitrotoluene		ĬŪ

b Name: GENERAL TESTING Contract: DAY ENG.

Tab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

trix: (soil/water) WATER

Lab Sample ID: BLK01

Sample wt/vol: 1000 (g/mL) ML Lab File ID: >D9494

vel: (low/med) LOW

Date Received: --/--/--

Moisture: not dec.100 dec. --- Date Extracted:02/26/93

GPC Cleanup: (Y/N) N pH:--- Date Analyzed: 3/02/93

nal Extract Volume:1 (uL) Dilution Factor: 1.00000

Injection Volume: 1 (uL)

Conversion Factor: 1.0000

CAS NO.	COMPOUND	CONCENTRATION (ug/L or ug/Kg	Q	
· · · · · · · · · · · · · · · · · · ·			,	
99-09-2	3-Nitroaniline		50.	ļ
03-32-3	Acenaphthene	1	10.	ΙÜ
	ニーニマス・チーロシカシをとへいわる	70 i	50.	†U
100-02-/	4-Nitrophenoi	•	50.	
	Ulbenzoruran	•	10.	t n t n
121-14-2	2.4-Dinitrotoli	iene )	10.	
04-00-2	Diethviphthala	- A .	10.	Į U
/UU3-/2-3 <del>-</del>	4-Chlorophenvl.	-nhanulathar I	10.	ļ U
00-/3-/	Fluorene	1		ĮU
TOO-01-0	4-Nitroaniling	•	10.	ļŪ
J J 4 - J Z - 1	4 6-Dinitro? r	nather Indones 1 1	50.	Į U
00-30-0	N-NItrosodinha	117 mina (1) l	50.	IU
101-55-3	4-Bromophenyl-p	bonulahban	10.	IU
118-74-1	Hexachlorobenze	nenylether	10.	IU
87-86-5	Pentachloropher	ene	10.	ļυ
85-01-8	Phenanthrene_	101	50.	ļŪ
120-12-7	Anthracene	!	10.	† U
86-74-8	Carbazole		10.	ţU
84-74-2	Di-n-Butylphtha	1	10.	↓ U
206-44-0	Fluoranthene_	late	10.	Į U
129-00-0	Purone		10.	ţU
85-68-7	Putul benevi wh		10.	† U
91-94-1	Butyl benzyl_pr	tnalate	10.	ΙU
56-55-3	3,3'-Dichlorobe	enzidine	20.	ΙU
218-01-9	Benzo(a)Anthrac	ene	10,	ΙU
117-81-7	Chrysene	ļ	10.	Į U
117-01-7-2-3	Bis(2-Ethylhexy	1)Phthalate	10.	۱U
205 00 2	Di-n-octyl_phth	alate	10.	ΙU
207 00 0	Benzo(b)fluorar	thene	10.	Įυ
20/-00-3		thana	10.	ΙU
JU-JZ-0	benzolalPyrene	3	10.	įū
T 7 7 - 7 - 7	indeno(1.2 3-cd	1) Durana I	10.	įŭ
JJ-/U-J	Dibenzia hianth	racono	10.	Ü
191-24-2	Benzo(g,h,i)Per	ylene	10.	ĬŬ
			•	, •

BLANKS

Lab Name: GENERAL TESTING CORP.

Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.: SDG No.: WG001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti		iing Calib ank (ug/I 2		ntion 3	С	Prepa- ration Blank	С	м
Aluminum	48.9	<u>u</u>	48.9	<u>U</u>	48.9	<u>U</u>	48.9	U	48.900	미	P
Antimony		_						-			11
Arsenic Barium	1.1	<u>_</u>	1.1	Ū	1.1	Ū	1.1	Ū	1,100	<u>ו</u>	P
Beryllium		υ.	<u></u>	브.	· <del></del>	<u>u</u> .	<u>+•+</u>	니	1.100	니	-
Cadmium		-		·			·	-		-	
Calcium											
Chromium		_				_		_		_	
Cobalt	-11.2	<u>B</u>	-13.2	<u>B</u>	-10.1	<u>B</u>	-12.7	<u>B</u>	-9.933	B	P
<u>Copper</u> Iron	-7.8	$\frac{1}{B}$	14.7	B	-8.2	$\frac{1}{B}$	-10.2	<u>_</u> B	-9.967	$\overline{\mathbf{B}}$	P
Lead		B.	14./	B	-0.2	브	-10.2	뭐	-9.967	H2	1 1
Magnesium	129.0	U	129.0	Ū	129.0	Ū	129.0	U	129.000	Ū	P P
Manganese	1.1	B	1.0	U	1.0	<u>U</u>	1.0	U	1.000	U	<u>P</u> _
Mercury		_		_		-				-	
Nickel		-		<del> </del> —		-	ļ			-	
Potassium Selenium	<del></del>	-		-		-	<del></del>	-	<del></del>	-	
Silver		-		1-		<del> </del>	<del> </del>	-		-	
Sodium											
Thallium				[_							
Vanadium	-22.9		-16.1	B	13.6				-25.833	В	P P
Zinc	2.8		2.8		2.8		2.8	U	2.800	U	<u>P</u>
Cyanide	7.4	<u>U</u>	7.4	<u>U</u>	7.4	<u>U</u>	7.4	U	7.400	U	AS

## BLANKS

Lab Name: GENERAL TESTING CORP. Contract: DAY ENG.

Lab Code: 10145 Case No.: SAS No.: SDG No.: WG001

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	С	Conti 1		uing Calib ank (ug/L 2		tion	3	C	Prepa- ration Blank C	м
Aluminum			48.9	U		_ {					P
Antimony		1_1		_							
Arsenic		1_		_		_			_		
Barium		.]	1.1	<u>U</u>		_		······································			P_
Beryllium						_			}		
Cadmium		.		_		_					
Calcium		·		_		_				l	
Chromium		.			·			<del></del>			
Cobalt		.	-12.7	<u>B</u>	·	_			-		P
Copper		·   _ :		_		_		<del></del>			
Iron		·	16.1	<u>B</u>		_				-	P_
Lead		.		_		_					
Magnesium		-   -	129.0								P.
Manganese	<del></del>	-   -	1.0	<u>u</u>		<u> </u>			<del> </del>		<u>P_</u>
Mercury		-		-	<del></del> -				<del> </del>		
Nickel	ļ <del></del>	-		-					<del> </del>		
Potassium		· [ —	<b> </b>	<del> </del> –		<u> </u>			}−∤	·	
Selenium		•∤-		-		<del> </del> —		• • • • • • • • • • • • • • • • • • • •	<del>   </del>	·	
Silver		-	l <del></del>	-		-	<del> </del>		<del> </del>	<b>├</b>	
Sodium		- -		<del> </del> -	·	-		•	<del>}</del> — ∤	-	
Thallium	<del></del>	-   -	-16.2	<del>-</del>		-	ļ		<del> </del>		<del>D</del>
Vanadium	<b></b>	-   -	-16.2		·	<del> </del> —	<del> </del>		<b> </b>		P P
Zinc		-	2.8	UU	7.4	U	<del> </del>	7 1	ן ט		AS
Cyanide	l <del></del>	-	1 / • 4	17	7.4	١ <u>U</u>	l ——	7.4	101		<u> 45</u>



# DAY ENGINEERING, P.C. 2144 BRIGHTON-HENRIETTA TOWN LINE RD., ROCHESTER, NY 14623

SHEET	_OF
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ENVIRONMENTAL ENGINEERING CONSULTANTS

GROUND WATER WELL

TOPKE TOC 753.97 754,33 GW.Z 764.09 764.55 GW-3 742.10 742.55 GW-4 752.13 752.24 GW.5 704.83 764 69

> CALC. BY: DATE: PROJECT NO.: CH'KD BY: ____DATE: ____DESCRIPTION:__

### 8A VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name:GENERAL TESTING Contract:DAY ENG.

Lab File ID (Standard): >E3787 Date Analyzed: 3/01/93

strument ID: MS5 Time Analyzed: 8:14

trix:(soil/water) WATER Level:(low/med) LOW Column:(pack/cap) CAP

	· ——————						
1	†	IS1(BCM)	1	IS2(DFB)	1	IS3(CBZ)	
		l AREA #	l RT	AREA #	RT	AREA #	RT
l			=====	=======	=====		•
	12 HOUR STD		10.38	,	12.08	518938	18.46
			=====	========	=====		
	UPPER LIMIT	263632.		1306816.	J	1037876.	' 
		=========	=====	========	=====		,  -=====
į.	LOWER LIMIT	03300,		326704.	l	259469.	'   1
		=======================================	=====	========	*====		,   = = = = =
•	EPA SAMPLE	1	!	<b>i</b>		, 	
1	NO.		ļ	ĺ		· }	, , ,
	=======================================	<b>a</b> =======	=====				i Benekat
	VBLK01	140025.	10.41	637222	12.10	' '	18,48
	\WG007	122677.	10.41	574903.	12.10		18,54
	WG001	123877.	10.44	581705.	12.10		18.54
	WG001MS	131069.	10.41		12.10		18.51
	WG001MSD	134111.	10.38		12.07		18.48
	WG002	134896.	10,38		12.07		18.45
	WG 0 0 3	134056.	10.38	624184.	12.07		18.45
	WG004	130884.	10.38	609300.	12.07		18.48
	<b>W</b> G005	130613.	10.41		12.10	,	18.48
	WG006	137057.	10.38		12.07	- ·	18.45
	VBLK01MS	139560.	10.38	659887,	12.07		18,48
12				1	12.07	J 2 2 3 3 0 0 .	10,401
13	· · · · · · · · · · · · · · · · · · ·					† †	
14					· · · · · · · · · · · · · · · · · · ·	†	
15							
16		<u> </u>				· <del></del>	
17							
18						· <del> !</del>	<del> </del>
19							<del> </del>
20							
21							
22				1		<del></del>	<u> </u>

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100% of internal standard area. LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk

### 8B SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ab Name:GENERAL TESTING

Contract: DAY ENG.

ab Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

-Lab File ID (Standard): >D9493

Date Analyzed: 3/02/93

nstrument ID: MS#4

Time Analyzed: 15:11

UPPER LIMIT  53374		· ————————————————————————————————————				
12 HOUR STD   26687	#  RT		IS2(NPT) AREA #		IS3(ANT)   AREA #	
UPPER LIMIT  53374   ====================================		12 HOUR STD	,,	1 14.47	79696.	*****
LOWER LIMIT   13343	<b>4</b> . i	======================================	233336.	1	159392.	
NO.     = = = = = = = = =   = = = = = = =	3.		58334.	]	========    39848.  ========	
01 SBLK01 33373 02 SBLK01MS 33546 03 WG001 27599 04 WG001MS 25442 05 WG001MSD 27179 06 WG002 32625 07 WG003 33026 08 WG004 26816 09 WG005 26557 10 WG006 31092 11  12  13	!	NO.	 		 	
16	5.   11.00 1.   10.99 2.   10.99 3.   10.99 4.   10.99 5.   10.98 6.   10.98 6.   10.98	SBLK01 SBLK01MS WG001 WG001MS WG0002 WG003 WG004 WG005 WG006	146336.   155567.   122990.   116527.   123882.   146456.   150372.   122833.	14.47 14.47 14.47 14.46 14.46 14.46 14.45 14.45 14.45	107904.   84141.   80167.   84099.   99544.   101195.   81733.	19.58 19.58 19.57 19.57 19.57 19.57 19.57 19.56

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d8

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

# Column used to flag internal standard area values with an asterisk 1 of 1

### 8C SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

b Name:GENERAL TESTING

Contract: DAY ENG.

b Code: 10145 Case No.: --- SAS No.: --- SDG No.: WG001

Lab File ID (Standard): >D9493

Date Analyzed: 3/02/93

strument ID: MS#4

Time Analyzed: 15:11

•	 	I IS4(PHN) AREA #	   RT	IS5(CRY)		IS6(PRY)	
				AREA #	l RT	AREA #	l RT
	12 HOUR STD		23.98	155759.	31.68		37,73
ı	UPPER LIMIT	l e e e e e e e e e e e e e e e e e e e		311518.		276866.	
i I	LOWER LIMIT	74705.		77880.		69216.	四世的祖和 19
; 	EPA SAMPLE NO.				======		3#8233
1		*******	· • = = = = = = :		======		. !
	SBLK01 SBLK01MS	194579.	23.98	215036.	31,66		37.71
	WG001	212034.   162250.	23.98    23.97		31,65		37.71
	WG001MS	157906.	23.96		31.65 31.65		37.69
	WG001MSD   WG002	160154.	23.96	164075.	31.64		37,69  37,68
	WG002   WG003	195517.   197677.	23.97	- ·	31.64	188383.	37.68
	WG004	153710.	23.97  23.96		31.64	- ,	37.68
	₩G005	148925.	23.97		31.63  31.63		37.68  37.68
10	<b>WG</b> 006	180458.	23.961		31.64		37.68
12		<del></del>	!		ļ		
13							<del> </del>
14							
15  16	!						t
171				!	<del> </del>		
18						<u>!</u>	!
19			'	t			
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21   22			<u>†</u>	<u></u>			
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IS4 (PHN) = Phenanthrene-d10 IS5 (CRY) = Chrysene-d12 IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100%

of internal standard area.

LOWER LIMIT = - 50%

of internal standard area.

Column used to flag internal standard area values with an asterisk

1 of 1